

Conservation Department Use Only

WPA Town Filing Fee	\$
NGWP Town Filing Fee	\$
Waiver Fee	\$

**APPLICATION FOR A PERMIT
NEEDHAM GENERAL WETLANDS PROTECTION BYLAW
ARTICLE 6**

☒ **Notice of Intent**

☐ **Request for Determination of Applicability**

Description of Project

The project consists of the demolish and reconstruct a single family home within the Inner
Riparian of Rosemary Brook.

Project Location

Street: _____

Assessor's Map: 128 **Parcel:** 0061

Registry Information

Book: Ctf # 203056 **Page:** _____

Applicant

Name: _____

Address: 4 Hopedale Street
Mendon,, MA

Owner (if different)

Name: Oakcrest Builders, Inc

Address: 4 Hopedale Street
Mendon,, MA

Date of Filing

**Resources within which
work is proposed:**

☐ **Bordering Vegetated Wetland**

☐ **Bank**

☐ **Bordering Land Subject to Flooding**

☐ **Isolated Land Subject to Flooding**

☒ **Buffer Zone**

This application ☒ **is** ☐ **is not** filed simultaneously with a NOI/RDA under the
Massachusetts Wetlands Protection Act.

Statement of Applicant: I hereby certify under the penalties of perjury that this application and all supporting
plans and documents are true and complete to the best of my knowledge, and that these have been prepared in
conformance with the requirements of the Needham General Wetlands Bylaw and supporting regulations. I further
certify that all abutters and other parties have been notified of this application as required by the Bylaw. I
understand I may be asked to pay for a consultant to review my application for the Commission.

Signature: _____ **Date:** 05/04/2017

NOTICE OF INTENT

10 Winfield Street

PROJECT NARRATIVE

INTRODUCTION

This Notice of Intent for 10 Winfield Street, Needham Massachusetts has been filed under the Massachusetts Wetlands Protection Act (M.G.L. Ch. 131, 40; the “Act”) and it’s implementing regulations (310 CMR 10.00 *et seq.*; the “Regulations”) and the Needham Wetlands Protection Bylaw (Article 6 of Town Bylaws) and the Town of Needham Wetlands Protection Regulations (JUNE 2017; the “Bylaw Regulations”).

Existing Site Conditions

The subject site consists of 12,253 s.f., located to the Easterly side of the bank of Rosemary Brook. Locus property has a gradual slope from Winfield Street to the rear of the lot where we would find the armored bank of Rosemary Brook. It is developed with a single-family house, garage, concrete driveways, walk, deck, associated lawn which is extensively altered. There is a planting bed that has over grown with invasives and has been a deposit area for yard debris (attachment “A”) on the north east corner. Additional, on the north west corner of locus is an area of sapling and small trees (“B”) The Rosemary Brook cuts through the back of the locus property, totaling 665 s.f.

Attachment “A”



Attachment “B”



From the existing house to the armored bank it is 56.3 feet of lawn (attachment “C”). The portion of the locus lot within the Inner Riparian is 10,002 sq. ft of which 2,791 sf is the 25 foot no-disturb.

(Attachment "C")



Existing Resource Areas Subject to Protection

Resource Areas on or adjacent to the site include: Bank and Land Under Waterbodies. Waterways associated with the Rosemary Brook is the 200-foot Riverfront Area is designated as resource area under 310 *CMR*. Based upon review of the *Massachusetts Natural Heritage Atlas, 14th Edition*, Priority Habitats and Estimated Habitats, Natick Quadrangle, valid from August 1, 2017, there are no Estimated Habitats, Priority Habitats or Certified Vernal Pools on or in the immediate vicinity of the lot.

Proposed Project Description

The proposed project consists of the razing and reconstruction of a single family home with ammdies within the inner riparian to Rosemary Brook and is a redevelopment project. The proposed house will be 37.1 feet from the armored bank of Rosemary Brook. Additionally, the proponant is proposing to plant an area of 1074 s.f. along the armored bank as show on the attached plan with White and Mountain Laurel. The overgrown planting area with yard debris and invasives will be cleaned up. Further, the potential homeowner has proposed a white vinal fence on the toe of slope along the armeored bank. There will be a gap to allow for movement of amphibians and other freshwater aquatics. Due to the proximately of the Rosemary Brook the majority of the work is within the inner riparian to the bank of Rosemary Brook as noted below.

Existing impervious within the 100 foot inner riparian = 1,928 sf

Proposed impervious within the 100 foot inner riparian = 2,931 sf

Net increase of impervious within the 100 foot inner riparian = 1,003 sf

Existing impervious within the 200 foot outer riparian = 428 sf

Proposed impervious within the 200 foot outer riparian = 563 sf

Net increase of impervious within the 200 foot outer riparian = 135 sf

Existing building within 100' inner riparian = 1,324 sf

Proposed building within 100' inner riparian = 2,368 sf

Increased building footprint within 100' inner riparian = 1,044 s.f.

A soil elevation will be performed prior to the insulation of the infiltration system for suitable soils.

Infiltration/Recharge

The proposed project as required by the Town of Needham Article 7, Stormwater By-Law requires four Cultec Contractor 150 XLHD Recharger Drywell Chamber. The infiltration is designed for all of the increased building on said parcel as noted above and shown on the attached plan.

$(2,368 \text{ s.f.} \times 1") / 12 = 197.33 \text{ cu. Ft.}$

Mitigated with 4 cultec contractor 150 hdxl

Recharger drywell chambers (or suitable replacement)

Capacity of 53.79 cu ft each. (4.89 cu ft/ft x 11 feet)

Recharge will mitigate completely for the proposed footprint

See drywell detail for specifications

And plan for locations. Locations as shown

May be adjusted prior to construction.

The proposed limit of work will be demarcated in the field by an erosion control barrier consisting of a straw wattle, along the armored bank as shown on the attached plan.

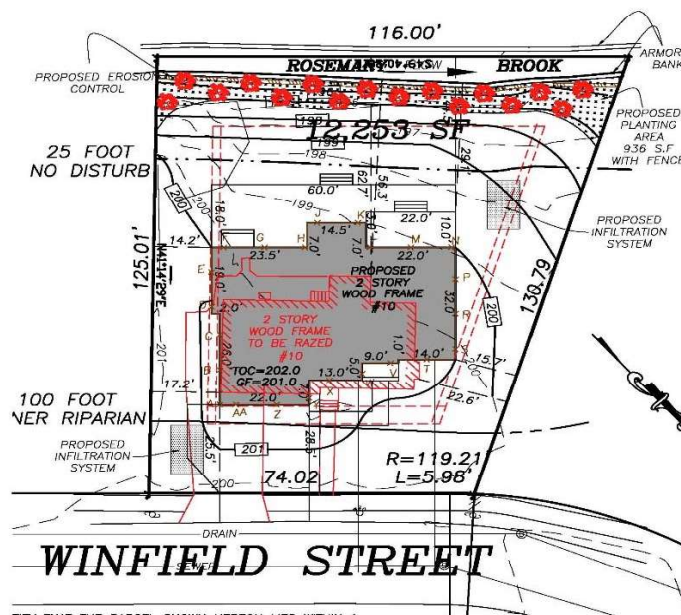
Furthermore, as noted previously, the proposed work will be adding in total one thousand, forty-four square feet of increase foot print to the current house within the Inner Riparian.

The proposed work will not require any trees to be removed on locus.

Alternatives Analysis

The proponent had originally designed a larger deck at the rear of the proposed house. The deck was to span the whole rear of the house as shown on attachment "D". The deck as originally proposed would have been 29.1 feet to the edge of the armored bank. After discussions, the builder and the potential homeowner had reduced the size of the deck increasing the separation to the bank. With this modification it reduced the impact to the Inner Riparian.

(Attachment "D")



Other Resource Areas

10.58 Riverfront Area

(4) General Performance Standard. Where the presumption set forth in 310 CMR 10.58(3) is not overcome, the applicant shall prove by a preponderance of the evidence that there are no practicable and substantially equivalent economic alternatives to the proposed project with less adverse effects on the interests identified in M.G.L. c.131 § 40 and that the work, including proposed mitigation, will have no significant adverse impact on the riverfront area to protect the interests identified in M.G.L. c. 131 § 40. In the event that the presumption is partially overcome, the issuing authority shall make a written determination setting forth its grounds in the Order of Conditions and the partial rebuttal shall be taken into account in the application of 310 CMR 10.58 (4) (d) 1.a. and c.; the issuing authority shall impose conditions in the Order that contribute to the protection of interests for which the riverfront area is significant.

(a) Protection of Other Resource Areas. The work shall meet the performance standards for all other resource areas within the riverfront area, as identified in 310 CMR 10.30 (coastal bank), 10.32 (salt marsh), 10.55 (Bordering Vegetated Wetland), and 10.57 (Land Subject to Flooding). When work in the riverfront area is also within the buffer zone to another resource area, the performance standards for the riverfront area shall contribute to the protection of the interests of M.G.L. c. 131, § 40 in lieu of any additional requirements that might otherwise be imposed on work in the buffer zone within the riverfront area.

1. **10.54 Bank:** No work is proposed to the Bank of the Rosemary Brook.
2. **10.56 Land Under Water Bodies and Waterways:** This project does not include work in Land Under Water Bodies and Waterways.

(b) Protection of Rare Species. No project may be permitted within the riverfront area which will have any adverse effect on specified habitat sites of rare wetland or upland, vertebrate or invertebrate species, as identified by the procedures established under 310 CMR 10.59 or 10.37, or which will have any adverse effect on vernal pool habitat certified prior to the filing of the Notice of Intent.

Review of the Massachusetts Natural Heritage Atlas, 13th Edition, Priority Habitats and Estimated Habitats, Natick Quadrangle, valid from October 1, 2008, indicates there are no Estimated Habitats or Priority Habitats, Certified or Potential Vernal Pools located on or in the immediate vicinity of the site.

(c) Practicable and Substantially Equivalent Economic Alternatives. There must be no practicable and substantially equivalent economic alternative to the proposed project with less adverse effects on the interests identified in M.G.L. c. 131 § 40.

The proponent had originally designed a larger deck at the rear of the proposed house. The deck was to span the whole rear of the house as shown on attachment "C". The deck as originally proposed would have been 29.1 feet to the edge of the armored bank.

(1) Performance Standards Applicable to Work On a Bank.

(a) Any proposed work, permitted by the Commission, on a Bank shall not impair the physical stability of the Bank; the water-carrying capacity of the existing channel within the Bank; the capacity of the bank to protect ground water and surface water quality; the Needham Wetlands Regulations 32 June 2017 capacity of the Bank to provide breeding habitat, escape cover, and food for fisheries; and the capacity of the Bank to provide wildlife habitat.

(b) Where a Bank is significant to wildlife habitat, any alteration of the Bank or the vegetation within 25 feet of that Bank is deemed to alter the capacity of the Bank to provide wildlife habitat.

(c) Where a Bank is significant to the protection of fisheries, any alteration of the Bank or the vegetation on that Bank is deemed to alter the capacity of the Bank to protect fisheries.

(d) Any proposed work, permitted by the Commission, shall meet the performance standards specified in Section 2.06(3).

(3) Performance Standards

The performance standards listed below are critical to the protection of the Interests of the Bylaw. These include short- and long-term protection of the wildlife habitat capacity and water quality within the adjacent Water Body, Waterway, Bank, or Vegetated Wetland, as well as the wildlife habitat present within the Buffer Zone and adjacent resources.

(a) No construction within 25 feet of the limit of Bank or Vegetated Wetland ("The 25-Foot Buffer Zone") may be permitted. Construction is here defined to include (but not limited to) all new roadways, driveways, buildings, decks (except as in (b) below), clearing and grading, stormwater detention basins, and point-source discharges. Any construction within the Buffer Zone must be designed to preserve a minimum of 25 feet of undisturbed natural vegetation and soils adjacent to a Vegetated Wetland or Bank.

Mitigation plantings and grading are proposed within the 25 feet of the armored bank. The plantings and regrading will reduce the surface runoff and improve the function of the buffer. Additionally, the overgrown planting area will be cleared of invasives and yard debris.

(b) Work within 25 feet of the limit of Bank or Vegetated wetland may be permitted when the work consists of:

- ☐ removing existing structures;
- Needham Wetlands Regulations 40 June 2017*
- ☐ planting native tree, shrub, or herbaceous species;
- ☐ removing invasive plant species and restoring native vegetation;
- ☐ adding a deck or patio to an existing dwelling, where no new impervious surfaces are proposed and the work area is existing lawn.

(c) Where the Buffer Zone provides wildlife habitat (i.e., is forested, meadowland, or otherwise undeveloped except for lawful existing lawn and ornamental or vegetable gardens), no alteration of vegetation or construction within 50 feet of the limit of Vegetated Wetland or Bank (the "50-Foot Buffer Zone") is permitted.

Currently the vegetation within the 50 Foot Buffer is lawn.

(d) No construction may be permitted within 100 feet of a Vernal Pool, as defined in Section 1.04 above.

No Vernal Pool is found on or around locus property.

(e) No work within the Buffer Zone shall impair the water quality, water temperature, or wildlife habitat of the adjacent Water Body, Waterway, Bank, or Vegetated Wetland.

All impervious will be infiltrated as noted on the attached plan and required per Town of Needham Article 7, Stormwater By-Law. Additional, the plantings and regrading will reduce surface runoff.

(f) Where new point-source discharges are proposed within the Buffer Zone, a comprehensive stormwater management system shall be designed that will not degrade the values or functions of the receiving or downstream Water Bodies, Waterways, or Vegetated Wetlands, surface water, or ground water. Such Stormwater management systems shall employ Best Practical Measures. Any point-source discharge must be designed to discharge water at non-erosive velocities equal to 2 c.f.s (cubic feet per second) or less.

No point-source discharge is proposed within the project.

(g) Where stormwater detention basins (including any infiltration or recharge basins) are proposed within the Buffer Zone, these shall be designed to be maintenance-free, selfcleaning, and to deter acts of vandalism. The inlet and outlet shall be designed to avoid scour and erosion of the basin bottom and discharge channel. The basin must be designed to avoid or minimize direct flows between the inlet and outlet, and to maximize the stormwater residence times.

All impervious from the proposed structure will be infiltrated as noted on the attached plan and required per Town of Needham Article 7, Stormwater By-Law.

(h) Where proposed work within the Buffer Zone will increase impervious surfaces and reduce groundwater recharge, infiltration measures must be designed to maintain said groundwater recharge.

All impervious from the proposed structure will be infiltrated as noted above and on the attached plan as required per Town of Needham Article 7, Stormwater By-Law.

(i) Erosion and sedimentation controls must be utilized for any construction within the Buffer Zone that will result in exposed soils. An erosion and sedimentation control plan must be prepared which provides specifications for temporary and permanent soil stabilization, using Best Practical Measures. No silt or sediment may be permitted to enter wetland resource areas during or subsequent to construction.

The proposed limit of work will be demarcated in the field by an erosion control barrier consisting of a straw wattle along the armored bank.

This is a redevelopment project and the Outer Riparian does “play a role in protecting the interests in the bylaw”. The lot is currently improved with a single-family house, driveway and other site features and will continue to serve in the same function to the wetland when completed with improvements.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

NEEDHAM
City/Town

Important:

When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



Note:
Before completing this form consult your local Conservation Commission regarding any municipal bylaw or ordinance.

A. General Information

1. Project Location (**Note:** electronic filers will click on button to locate project site):

10 Winfield Street

a. Street Address

Needham

b. City/Town

MA

c. Zip Code

Latitude and Longitude:

128

f. Assessors Map/Plat Number

-32.037040

d. Latitude

115.926550

e. Longitude

061

g. Parcel /Lot Number

2. Applicant:

Robert

a. First Name

Roach

b. Last Name

Oakcrest Builders, Inc

c. Organization

4 Hopedale Street

d. Street Address

Mendon

e. City/Town

MA

f. State

01756-1073

g. Zip Code

508-958-6070

h. Phone Number

i. Fax Number

landsite1@gmail.com

j. Email Address

3. Property owner (required if different from applicant): ☐ Check if more than one owner

a. First Name

b. Last Name

c. Organization

d. Street Address

e. City/Town

f. State

g. Zip Code

h. Phone Number

i. Fax Number

j. Email address

4. Representative (if any):

Diane

a. First Name

Simonelli

b. Last Name

Field Resources, Inc

c. Company

281 Chestnut Street

d. Street Address

Needham

e. City/Town

MA

f. State

02492

g. Zip Code

781-444-5936

h. Phone Number

i. Fax Number

FieldResources@hotmail.com

j. Email address

5. Total WPA Fee Paid (from NOI Wetland Fee Transmittal Form):

\$ 750.00

a. Total Fee Paid

\$ 362.50

b. State Fee Paid

\$ 387.50

c. City/Town Fee Paid



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A. General Information (continued)

6. General Project Description:

The proposed project is the demolish and reconstruct a single family home with its amities, all within the inner Riparian of Rosemary Brook. The brook is down gradient to the street, house and all work.

7a. Project Type Checklist: (Limited Project Types see Section A. 7b.)

- | | |
|---|---|
| 1. <input checked="" type="checkbox"/> Single Family Home | 2. <input type="checkbox"/> Residential Subdivision |
| 3. <input type="checkbox"/> Commercial/Industrial | 4. <input type="checkbox"/> Dock/Pier |
| 5. <input type="checkbox"/> Utilities | 6. <input type="checkbox"/> Coastal engineering Structure |
| 7. <input type="checkbox"/> Agriculture (e.g., cranberries, forestry) | 8. <input type="checkbox"/> Transportation |
| 9. <input type="checkbox"/> Other | |

7b. Is any portion of the proposed activity eligible to be treated as a limited project (including Ecological Restoration Limited Project) subject to 310 CMR 10.24 (coastal) or 310 CMR 10.53 (inland)?

1. ☐ Yes ☒ No If yes, describe which limited project applies to this project. (See 310 CMR 10.24 and 10.53 for a complete list and description of limited project types)

2. Limited Project Type

If the proposed activity is eligible to be treated as an Ecological Restoration Limited Project (310 CMR10.24(8), 310 CMR 10.53(4)), complete and attach Appendix A: Ecological Restoration Limited Project Checklist and Signed Certification.

8. Property recorded at the Registry of Deeds for:

Norfolk County

203056

a. County

b. Certificate # (if registered land)

c. Book

d. Page Number

B. Buffer Zone & Resource Area Impacts (temporary & permanent)

- ☒ Buffer Zone Only – Check if the project is located only in the Buffer Zone of a Bordering Vegetated Wetland, Inland Bank, or Coastal Resource Area.
- ☐ Inland Resource Areas (see 310 CMR 10.54-10.58; if not applicable, go to Section B.3, Coastal Resource Areas).

Check all that apply below. Attach narrative and any supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.



Massachusetts Department of Environmental Protection
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B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

For all projects affecting other Resource Areas, please attach a narrative explaining how the resource area was delineated.

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. <input type="checkbox"/> Bank	1. linear feet	2. linear feet
b. <input type="checkbox"/> Bordering Vegetated Wetland	1. square feet	2. square feet
c. <input type="checkbox"/> Land Under Waterbodies and Waterways	1. square feet	2. square feet
	3. cubic yards dredged	

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
d. <input type="checkbox"/> Bordering Land Subject to Flooding	1. square feet	2. square feet
	3. cubic feet of flood storage lost	4. cubic feet replaced
e. <input type="checkbox"/> Isolated Land Subject to Flooding	1. square feet	
	2. cubic feet of flood storage lost	3. cubic feet replaced
f. <input type="checkbox"/> Riverfront Area	Rosemary Brook	
	1. Name of Waterway (if available) - specify coastal or inland	

2. Width of Riverfront Area (check one):

☐ 25 ft. - Designated Densely Developed Areas only

☐ 100 ft. - New agricultural projects only

☒ 200 ft. - All other projects

3. Total area of Riverfront Area on the site of the proposed project: 11,588 sf
square feet

4. Proposed alteration of the Riverfront Area:

11,588 sf 10,002 sf 1,586 sf
a. total square feet b. square feet within 100 ft. c. square feet between 100 ft. and 200 ft.

5. Has an alternatives analysis been done and is it attached to this NOI? ☒ Yes ☐ No

6. Was the lot where the activity is proposed created prior to August 1, 1996? ☒ Yes ☐ No

3. ☐ Coastal Resource Areas: (See 310 CMR 10.25-10.35)

Note: for coastal riverfront areas, please complete **Section B.2.f.** above.



Massachusetts Department of Environmental Protection
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B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

Check all that apply below. Attach narrative and supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.

Online Users:
Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. <input type="checkbox"/> Designated Port Areas	Indicate size under Land Under the Ocean, below	
b. <input type="checkbox"/> Land Under the Ocean	1. square feet _____	
	2. cubic yards dredged _____	
c. <input type="checkbox"/> Barrier Beach	Indicate size under Coastal Beaches and/or Coastal Dunes below	
d. <input type="checkbox"/> Coastal Beaches	1. square feet _____	2. cubic yards beach nourishment _____
e. <input type="checkbox"/> Coastal Dunes	1. square feet _____	2. cubic yards dune nourishment _____
	Size of Proposed Alteration	Proposed Replacement (if any)
f. <input type="checkbox"/> Coastal Banks	1. linear feet _____	
g. <input type="checkbox"/> Rocky Intertidal Shores	1. square feet _____	
h. <input type="checkbox"/> Salt Marshes	1. square feet _____	2. sq ft restoration, rehab., creation _____
i. <input type="checkbox"/> Land Under Salt Ponds	1. square feet _____	
	2. cubic yards dredged _____	
j. <input type="checkbox"/> Land Containing Shellfish	1. square feet _____	
k. <input type="checkbox"/> Fish Runs	Indicate size under Coastal Banks, inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above	
	1. cubic yards dredged _____	
l. <input type="checkbox"/> Land Subject to Coastal Storm Flowage	1. square feet _____	

4. ☐ Restoration/Enhancement

If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Section B.2.b or B.3.h above, please enter the additional amount here.

a. square feet of BVW _____

b. square feet of Salt Marsh _____

5. ☐ Project Involves Stream Crossings

a. number of new stream crossings _____

b. number of replacement stream crossings _____



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C. Other Applicable Standards and Requirements

- This is a proposal for an Ecological Restoration Limited Project. Skip Section C and complete Appendix A: Ecological Restoration Limited Project Checklists – Required Actions (310 CMR 10.11).

Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

1. Is any portion of the proposed project located in **Estimated Habitat of Rare Wildlife** as indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetland Wildlife published by the Natural Heritage and Endangered Species Program (NHESP)? To view habitat maps, see the *Massachusetts Natural Heritage Atlas* or go to http://maps.massgis.state.ma.us/PRI_EST_HAB/viewer.htm.

a. ☐ Yes ☒ No

If yes, include proof of mailing or hand delivery of NOI to:

**Natural Heritage and Endangered Species Program
Division of Fisheries and Wildlife
1 Rabbit Hill Road
Westborough, MA 01581**

8/1/2017

b. Date of map

If yes, the project is also subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18). To qualify for a streamlined, 30-day, MESA/Wetlands Protection Act review, please complete Section C.1.c, and include requested materials with this Notice of Intent (NOI); *OR* complete Section C.2.f, if applicable. *If MESA supplemental information is not included with the NOI, by completing Section 1 of this form, the NHESP will require a separate MESA filing which may take up to 90 days to review (unless noted exceptions in Section 2 apply, see below).*

- c. Submit Supplemental Information for Endangered Species Review*

1. ☐ Percentage/acreage of property to be altered:

(a) within wetland Resource Area

percentage/acreage

(b) outside Resource Area

percentage/acreage

2. ☐ Assessor's Map or right-of-way plan of site

2. ☐ Project plans for entire project site, including wetland resource areas and areas outside of wetlands jurisdiction, showing existing and proposed conditions, existing and proposed tree/vegetation clearing line, and clearly demarcated limits of work **

(a) ☐ Project description (including description of impacts outside of wetland resource area & buffer zone)

(b) ☐ Photographs representative of the site

* Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see <https://www.mass.gov/endangered-species-act-mesa-regulatory-review>).

Priority Habitat includes habitat for state-listed plants and strictly upland species not protected by the Wetlands Protection Act.

** MESA projects may not be segmented (321 CMR 10.16). The applicant must disclose full development plans even if such plans are not required as part of the Notice of Intent process.



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C. Other Applicable Standards and Requirements (cont'd)

(c) ☐ MESA filing fee (fee information available at <https://www.mass.gov/how-to/how-to-file-for-a-mesa-project-review>).

Make check payable to "Commonwealth of Massachusetts - NHESP" and **mail to NHESP** at above address

Projects altering 10 or more acres of land, also submit:

(d) ☐ Vegetation cover type map of site

(e) ☐ Project plans showing Priority & Estimated Habitat boundaries

(f) ☐ OR Check One of the Following

1. ☐ Project is exempt from MESA review.

Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10.14, <https://www.mass.gov/service-details/exemptions-from-review-for-projectsactivities-in-priority-habitat>; the NOI must still be sent to NHESP if the project is within estimated habitat pursuant to 310 CMR 10.37 and 10.59.)

2. ☐ Separate MESA review ongoing.

a. NHESP Tracking #

b. Date submitted to NHESP

3. ☐ Separate MESA review completed.

Include copy of NHESP "no Take" determination or valid Conservation & Management Permit with approved plan.

3. For coastal projects only, is any portion of the proposed project located below the mean high water line or in a fish run?

a. ☒ Not applicable – project is in inland resource area only b. ☐ Yes ☐ No

If yes, include proof of mailing, hand delivery, or electronic delivery of NOI to either:

South Shore - Cohasset to Rhode Island border, and the Cape & Islands:

North Shore - Hull to New Hampshire border:

Division of Marine Fisheries -
Southeast Marine Fisheries Station
Attn: Environmental Reviewer
836 South Rodney French Blvd.
New Bedford, MA 02744
Email: dmf.envreview-south@mass.gov

Division of Marine Fisheries -
North Shore Office
Attn: Environmental Reviewer
30 Emerson Avenue
Gloucester, MA 01930
Email: dmf.envreview-north@mass.gov

Also if yes, the project may require a Chapter 91 license. For coastal towns in the Northeast Region, please contact MassDEP's Boston Office. For coastal towns in the Southeast Region, please contact MassDEP's Southeast Regional Office.

c. ☐ Is this an aquaculture project?

d. ☐ Yes ☒ No

If yes, include a copy of the Division of Marine Fisheries Certification Letter (M.G.L. c. 130, § 57).



Massachusetts Department of Environmental Protection
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WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

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C. Other Applicable Standards and Requirements (cont'd)

Online Users:

Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.

4. Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?
a. ☐ Yes ☒ No If yes, provide name of ACEC (see instructions to WPA Form 3 or MassDEP Website for ACEC locations). **Note:** electronic filers click on Website.
- b. ACEC
5. Is any portion of the proposed project within an area designated as an Outstanding Resource Water (ORW) as designated in the Massachusetts Surface Water Quality Standards, 314 CMR 4.00?
a. ☐ Yes ☒ No
6. Is any portion of the site subject to a Wetlands Restriction Order under the Inland Wetlands Restriction Act (M.G.L. c. 131, § 40A) or the Coastal Wetlands Restriction Act (M.G.L. c. 130, § 105)?
a. ☐ Yes ☒ No
7. Is this project subject to provisions of the MassDEP Stormwater Management Standards?
a. ☐ Yes. Attach a copy of the Stormwater Report as required by the Stormwater Management Standards per 310 CMR 10.05(6)(k)-(q) and check if:
1. ☐ Applying for Low Impact Development (LID) site design credits (as described in Stormwater Management Handbook Vol. 2, Chapter 3)
2. ☐ A portion of the site constitutes redevelopment
3. ☐ Proprietary BMPs are included in the Stormwater Management System.
b. ☒ No. Check why the project is exempt:
1. ☒ Single-family house
2. ☐ Emergency road repair
3. ☐ Small Residential Subdivision (less than or equal to 4 single-family houses or less than or equal to 4 units in multi-family housing project) with no discharge to Critical Areas.

D. Additional Information

- ☐ This is a proposal for an Ecological Restoration Limited Project. Skip Section D and complete Appendix A: Ecological Restoration Notice of Intent – Minimum Required Documents (310 CMR 10.12).

Applicants must include the following with this Notice of Intent (NOI). See instructions for details.

Online Users: Attach the document transaction number (provided on your receipt page) for any of the following information you submit to the Department.

1. ☐ USGS or other map of the area (along with a narrative description, if necessary) containing sufficient information for the Conservation Commission and the Department to locate the site. (Electronic filers may omit this item.)
2. ☐ Plans identifying the location of proposed activities (including activities proposed to serve as a Bordering Vegetated Wetland [BVW] replication area or other mitigating measure) relative to the boundaries of each affected resource area.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

City/Town

D. Additional Information (cont'd)

3. ☐ Identify the method for BVW and other resource area boundary delineations (MassDEP BVW Field Data Form(s), Determination of Applicability, Order of Resource Area Delineation, etc.), and attach documentation of the methodology.

4. ☐ List the titles and dates for all plans and other materials submitted with this NOI.

a. Plan Title

Field Resources, Inc

Bradley J Simonelli, PLS

b. Prepared By

October 5, 2020

c. Signed and Stamped by

1" - 20'

d. Final Revision Date

e. Scale

f. Additional Plan or Document Title

g. Date

5. ☐ If there is more than one property owner, please attach a list of these property owners not listed on this form.
6. ☐ Attach proof of mailing for Natural Heritage and Endangered Species Program, if needed.
7. ☐ Attach proof of mailing for Massachusetts Division of Marine Fisheries, if needed.
8. ☒ Attach NOI Wetland Fee Transmittal Form
9. ☐ Attach Stormwater Report, if needed.

E. Fees

1. ☐ Fee Exempt: No filing fee shall be assessed for projects of any city, town, county, or district of the Commonwealth, federally recognized Indian tribe housing authority, municipal housing authority, or the Massachusetts Bay Transportation Authority.

Applicants must submit the following information (in addition to pages 1 and 2 of the NOI Wetland Fee Transmittal Form) to confirm fee payment:

2958

2. Municipal Check Number

09/18/2020

3. Check date

2959

4. State Check Number

09/18/2020

5. Check date

Oakcrest Builders, Inc

6. Payor name on check: First Name

7. Payor name on check: Last Name



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

City/Town

Needham

F. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Notice of Intent and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge. I understand that the Conservation Commission will place notification of this Notice in a local newspaper at the expense of the applicant in accordance with the wetlands regulations, 310 CMR 10.05(5)(a).

I further certify under penalties of perjury that all abutters were notified of this application, pursuant to the requirements of M.G.L. c. 131, § 40. Notice must be made by Certificate of Mailing or in writing by hand delivery or certified mail (return receipt requested) to all abutters within 100 feet of the property line of the project location.

1. Signature of Applicant

Robert Smith

2. Date

9/18/2020

3. Signature of Property Owner (if different)

Diane Simenelli

4. Date

9/18/2020

5. Signature of Representative (if any)

6. Date

For Conservation Commission:

Two copies of the completed Notice of Intent (Form 3), including supporting plans and documents, two copies of the NOI Wetland Fee Transmittal Form, and the city/town fee payment, to the Conservation Commission by certified mail or hand delivery.

For MassDEP:

One copy of the completed Notice of Intent (Form 3), including supporting plans and documents, one copy of the NOI Wetland Fee Transmittal Form, and a **copy** of the state fee payment to the MassDEP Regional Office (see Instructions) by certified mail or hand delivery.

Other:

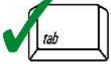
If the applicant has checked the "yes" box in any part of Section C, Item 3, above, refer to that section and the Instructions for additional submittal requirements.

The original and copies must be sent simultaneously. Failure by the applicant to send copies in a timely manner may result in dismissal of the Notice of Intent.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands
NOI Wetland Fee Transmittal Form
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



A. Applicant Information

1. Location of Project:

10 Winfield Street

a. Street Address

2959

c. Check number

Needham

b. City/Town

MA

\$ 362.50

d. Fee amount

2. Applicant Mailing Address:

Robert

a. First Name

Roach

b. Last Name

Oakcrest Builders, Inc

c. Organization

4 Hopedale Street

d. Mailing Address

Mendon

e. City/Town

MA

f. State

01756

g. Zip Code

h. Phone Number

i. Fax Number

j. Email Address

3. Property Owner (if different):

a. First Name

b. Last Name

c. Organization

d. Mailing Address

e. City/Town

f. State

g. Zip Code

h. Phone Number

i. Fax Number

j. Email Address

B. Fees

Fee should be calculated using the following process & worksheet. **Please see Instructions before filling out worksheet.**

Step 1/Type of Activity: Describe each type of activity that will occur in wetland resource area and buffer zone.

Step 2/Number of Activities: Identify the number of each type of activity.

Step 3/Individual Activity Fee: Identify each activity fee from the six project categories listed in the instructions.

Step 4/Subtotal Activity Fee: Multiply the number of activities (identified in Step 2) times the fee per category (identified in Step 3) to reach a subtotal fee amount. Note: If any of these activities are in a Riverfront Area in addition to another Resource Area or the Buffer Zone, the fee per activity should be multiplied by 1.5 and then added to the subtotal amount.

Step 5/Total Project Fee: Determine the total project fee by adding the subtotal amounts from Step 4.

Step 6/Fee Payments: To calculate the state share of the fee, divide the total fee in half and subtract \$12.50. To calculate the city/town share of the fee, divide the total fee in half and add \$12.50.

To calculate filing fees, refer to the category fee list and examples in the instructions for filling out WPA Form 3 (Notice of Intent).



Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
Cat 2, A.) Single Family house	1	\$500.00	\$750.00
Step 5/Total Project Fee:			\$750.00
Step 6/Fee Payments:			
Total Project Fee:			\$750.00
State share of filing Fee:			\$362.50
City/Town share of filling Fee:			\$ 387.50

a.) Complete pages 1 and 2 and send with a check or money order for the state share of the fee, payable to the Commonwealth of Massachusetts.

b.) **To the Conservation Commission:** Send the Notice of Intent or Abbreviated Notice of Intent; a **copy** of this form; and the city/town fee payment.

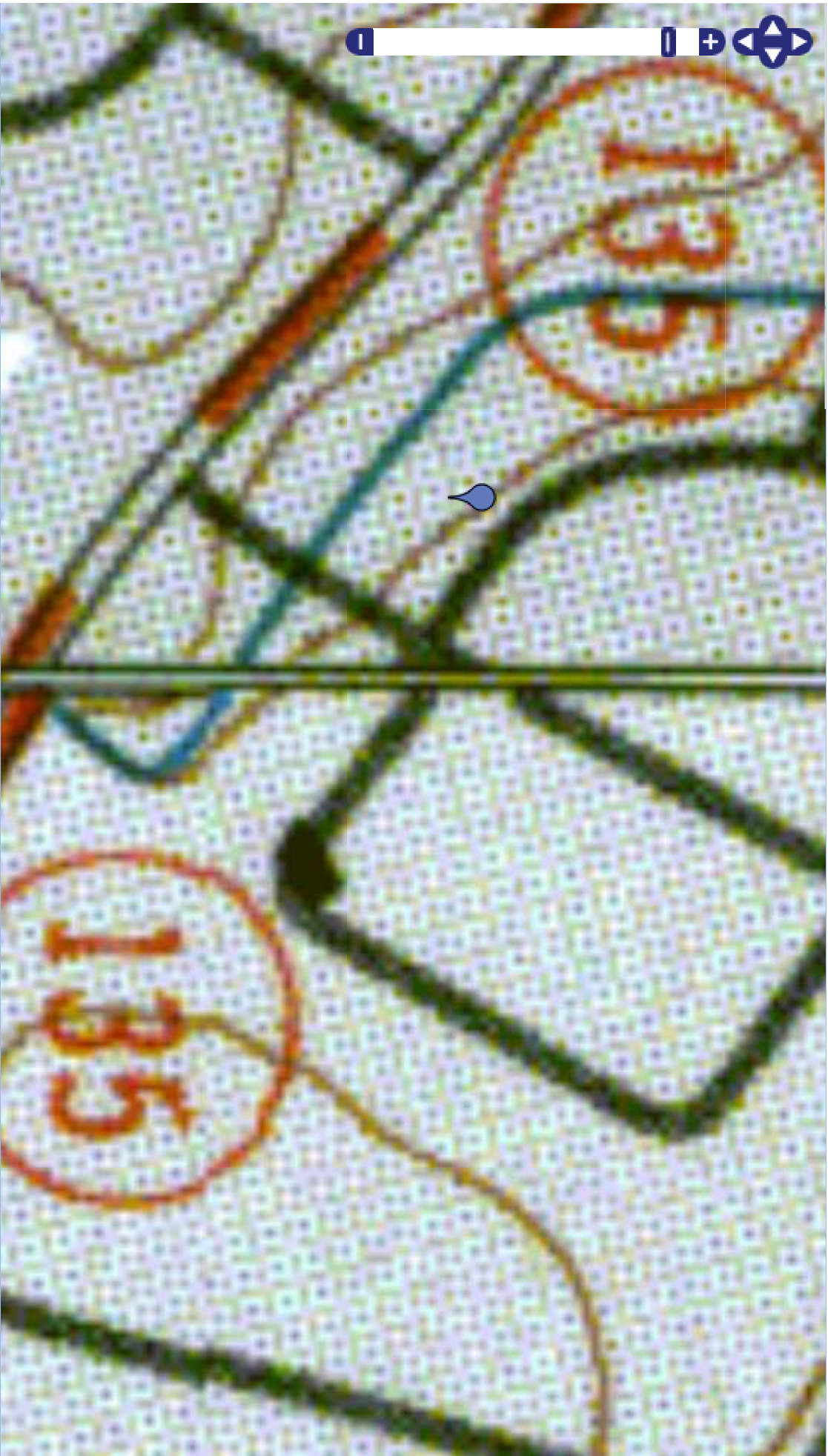
To MassDEP Regional Office (see Instructions): Send a copy of the Notice of Intent or Abbreviated Notice of Intent; a **copy** of this form; and a **copy** of the state fee payment. (E-filers of Notices of Intent may submit these electronically.)

10 WINFIELD STREET

OWNER NAME 1	OWNER NAME 2	MAILING ADDRESS	CITY	ST	ZIP	PARCEL ID	PROPERTY ADDRESS
MULLEN, ROBERT A.+	MULLEN, JEAN M.	40 WINFIELD ST	NEEDHAM	MA	02492	1991270002800000	40 WINFIELD ST
MORRIS, SCOTT R. &	MORRIS, JENNIFER L.	7 PHEASANT RD	NEEDHAM	MA	02492	1991270002900000	7 PHEASANT RD
SMITH, KARA M. &	ROBINSON, MARISSA B.	22 WINFIELD ST	NEEDHAM	MA	02492	1991270003000000	22 WINFIELD ST
FALLAS, ALVARO A &	CHACON, ANA B	1397 GREAT PLAIN AVE	NEEDHAM	MA	02492	1991270003100000	1397 GREAT PLAIN AVE
KRENGEL, MAXINE HOPE		1403 GREAT PLAIN AVE	NEEDHAM	MA	02492	1991270003200000	1403 GREAT PLAIN AVE
DAVIS, BENJAMIN W. &	PERRY, JACQUELINE F.	1409 GREAT PLAIN AVE	NEEDHAM	MA	02492	1991270003300000	1409 GREAT PLAIN AVE
NEEDHAM HOUSING AUTHORITY		28 ROBERT COOK DR	NEEDHAM	MA	02494	1991270003400000	1415 GREAT PLAIN AVE
HOYE, KATHLEEN E. &	FEDEROW, KURT C	19 PHEASANT RD	NEEDHAM	MA	02492	1991270003900000	19 PHEASANT RD
GOLDSTEIN, ARNOLD M &	GOLDSTEIN, MARJORIE F	40 WARE RD	NEEDHAM	MA	02492	1991280002800000	40 WARE RD
GREEN, JUDITH		34 WARE RD	NEEDHAM	MA	02492	1991280002900000	34 WARE RD
CHANG, HSIAO-HUI		22 WARE RD	NEEDHAM	MA	02492	1991280003000000	22 WARE RD
GILBERT, KARA A.&	ITZKOVITS, DAVID	4 WARE RD	NEEDHAM	MA	02494	1991280003100000	4 WARE RD
SHERMAN, SCOTT &	SHERMAN, TRICIA	33 ABBOTT ST	NEEDHAM	MA	02492	1991280003200000	33 ABBOTT ST
COHEN, MITCHELL &	COHEN, BETH	39 ABBOTT ST	NEEDHAM	MA	02492	1991280003300000	39 ABBOTT ST
VANDAHM, ELIZABETH		43 ABBOTT ST	NEEDHAM	MA	02492	1991280003400000	43 ABBOTT ST
MITTAZ, JEAN-PIERRE &	MITTAZ, MARYBETH	35 WINFIELD ST	NEEDHAM	MA	02492	1991280005100000	35 WINFIELD ST
BLASKOWSKY, JILL S.		53 WINFIELD ST	NEEDHAM	MA	02492	1991280005200000	53 WINFIELD ST
MILLER, JONATHAN W.	MILLER, IRENE ELIZABETH	63 WINFIELD ST	NEEDHAM	MA	02492	1991280005300000	63 WINFIELD ST
KNIGHTS, PETER B +	KNIGHTS, JANE Z	46 ABBOTT ST	NEEDHAM	MA	02492	1991280005500000	46 ABBOTT ST
GREGORY, HELEN J		38 ABBOTT ST	NEEDHAM	MA	02492	1991280005600000	38 ABBOTT ST
DOCTOR, MICHAEL J & SARAH W	C/O SHAH, REENA M & AMEER T.	30 ABBOTT ST	NEEDHAM	MA	02492	1991280005700000	30 ABBOTT ST
MUTINGA, MUTHOKA L.		27 WINFIELD ST	NEEDHAM	MA	02492	1991280005800000	27 WINFIELD ST
GOLUBIC, ANNELESE T.	FLAGEL, JENNIFER R.	19 WINFIELD ST	NEEDHAM	MA	02492	1991280005900000	19 WINFIELD ST
FLAGEL, ANDREW L. &	C/O OAKCREST BUILDERS INC	16 WINFIELD ST	NEEDHAM	MA	02492	1991280006000000	16 WINFIELD ST
DAVIDSON, MURRAY H. & MYRNA E	BARRASSO, CONSIGLIA	4 HOPEDALE ST	MENDON	MA	01756	1991280006100000	10 WINFIELD ST
SCHAFFSTEIN, MICHAEL J TR. &	LEONARD-SCHAFFSTEIN, JENNIFER L TR.	16 ABBOTT ST	NEEDHAM	MA	02492	1991280006200000	16 ABBOTT ST
KATZ, SCOTT F. &	KATZ, JILL K.	15 ABBOTT ST	NEEDHAM	MA	02492	1991280006300000	15 ABBOTT ST
JANELLE, NICOLE &	JANELLE, JODY L.	11 WARE RD	NEEDHAM	MA	02492	1991280006400000	11 WARE RD
DEFILIPPO, PAUL		1351 GREAT PLAIN AVE	NEEDHAM	MA	02492	1991280006800000	1351 GREAT PLAIN AVE
WALTERS, JOAN M. TR	GREAT PLAIN AVE 1365 REALTY TRUST	1357 GREAT PLAIN AVE	NEEDHAM	MA	02492	1991280006900000	1357 GREAT PLAIN AVE
CURRAN, AUSTIN H. &	SHERAN, CHARLES F.	1365 GREAT PLAIN AVE	NEEDHAM	MA	02492	1991280007000000	1365 GREAT PLAIN AVE
SHEE, ANAND &	SHEE, PALLAVI A	1375 GREAT PLAIN AVE	NEEDHAM	MA	02492	1991280007100000	1375 GREAT PLAIN AVE
CHRISTOPHER, LENORA &	KIVELA, JASON W.	1381 GREAT PLAIN AVE	NEEDHAM	MA	02492	1991280007200000	1381 GREAT PLAIN AVE
KRESS, HELENE W.		1389 GREAT PLAIN AVE	NEEDHAM	MA	02492	1991280007300000	1389 GREAT PLAIN AVE
MELANSON, DAVID J. &	MELANSON, NATALIE	1410 GREAT PLAIN AVE	NEEDHAM	MA	02492	1991420001500000	1410 GREAT PLAIN AVE
MCINTOSH, ROBERT R	C/O MCINTOSH R. JR. & MICHELLE S. TRS	1404 GREAT PLAIN AVE	NEEDHAM	MA	02492	1991420001600000	1404 GREAT PLAIN AVE
SMITH, CHARLES P &	SMITH MARY E	512 WEKFORO DR	NICEVILLE	FL	32578	1991420001700000	0 GEORGE ST
RILEY, ROBERT J.+	RILEY, MARY A.	9 GEORGE ST	NEEDHAM	MA	02492	1991420006600000	9 GEORGE ST
MENACHEM, STEPHANIE K. &	MENACHEM, JESSE E.	1394 GREAT PLAIN AVE	NEEDHAM	MA	02492	1991420006700000	1394 GREAT PLAIN AVE
BRADLEY, ROBERT H. &	BRADLEY, GINA K.	1386 GREAT PLAIN AVE	NEEDHAM	MA	02492	1991420006800000	1386 GREAT PLAIN AVE
LOPEZ-ROJAS, MAYRA D.		1376 GREAT PLAIN AVE	NEEDHAM	MA	02492	1991420006900000	1376 GREAT PLAIN AVE
MEMON, BABAR I. &		1370 GREAT PLAIN AVE	NEEDHAM	MA	02492	1991420007000000	1370 GREAT PLAIN AVE
HUSICK, ANDREW J. &	FARID, HUMA	1362 GREAT PLAIN AVE	NEEDHAM	MA	02492	1991420007113620	1362 GREAT PLAIN AVE
SOCORY, SHARON ANN	HUSICK, CAROLINE B.	1364 GREAT PLAIN AVE	NEEDHAM	MA	02492	1991420007113640	1364 GREAT PLAIN AVE
		1360 GREAT PLAIN AVE	NEEDHAM	MA	02492	1991420007200000	1360 GREAT PLAIN AVE

10 Winfield St, needham

Zoom to a town

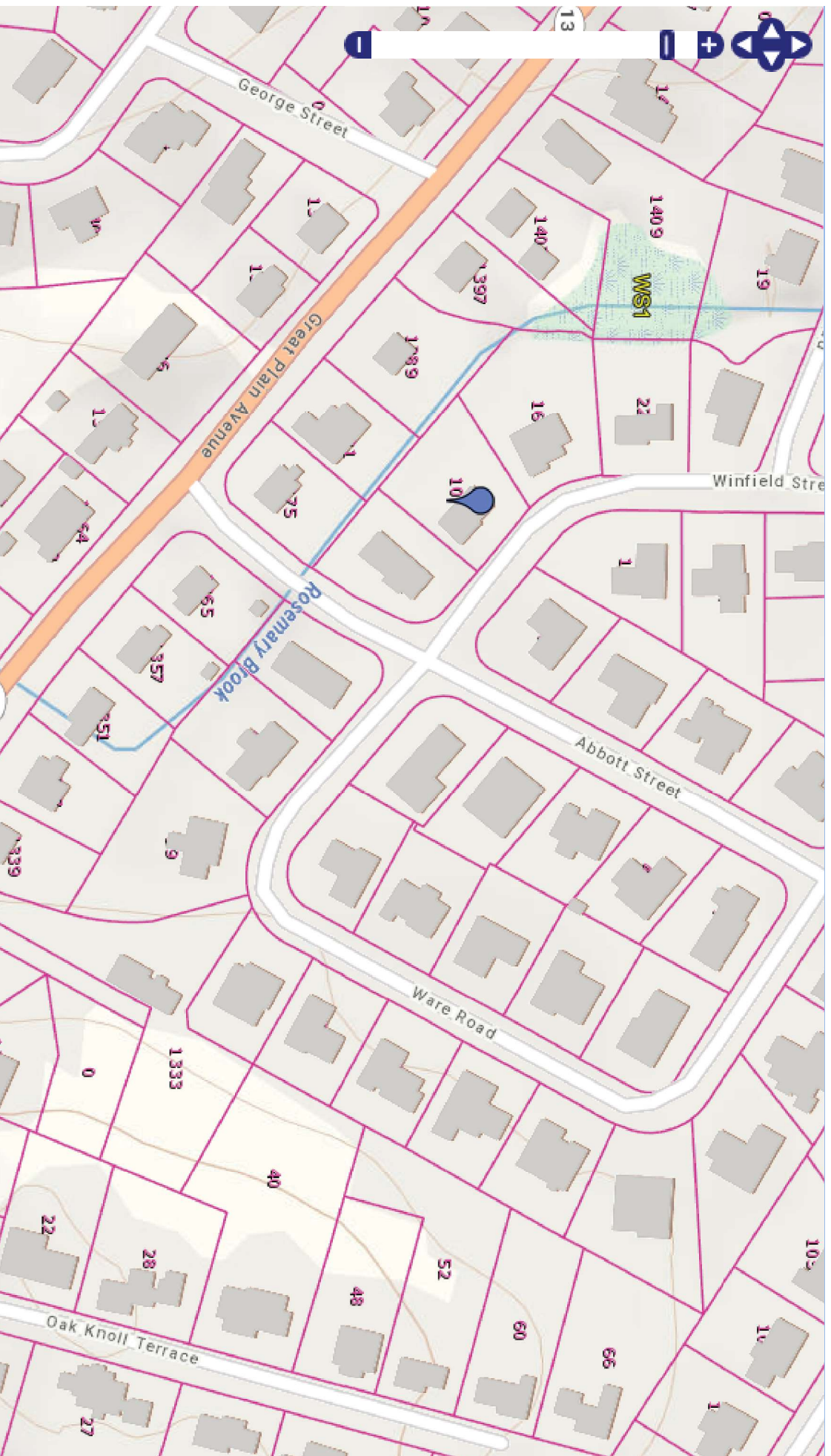


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10 Winfield St, needham

Zoom to a town



BASBANES WETLAND CONSULTING

39 Hardy St.
Dunstable, MA 01827

October 7 2020

Debbie Anderson
Director of Conservation
Public Services Administration Building
500 Dedham Ave.
Needham, MA 02492

RE: 10 Winfield St Needham

Dear Ms. Anderson,

On behalf of Robert Roache, owner of 10 Winfield St., Needham, I am requesting a Waiver of Regulations and its associated fee to perform work within 25' No Disturb Zone at the above-mentioned property. The waiver request is to perform grading associated with the razing/rebuilding of a single-family home. The existing house, which is 56' from the Rosemary Brook, will be razed. The proposed house, while closer to the resource area will remain out of the 25' buffer at 37' away.

The resource area on the property is Rosemary Brook, a perennial stream, and the associated Riverfront Area. The work proposed, which consists of grading and planting only, is in the inner riparian zone as well as the 25' NDZ. In order to provide mitigation for this activity, a 1074 s.f. area within the 25' buffer will be supplied with plants to create a natural vegetated buffer between the brook and the yard. A fence will be installed to limit encroachment in to the brook.

1.11 Waiver of Regulations

Strict compliance of these rules and regulations may be waived when, in the judgment of the Commission:

(a) Such action would serve a substantial public interest.

The project serves the homeowner only. No public interest would be served.

(b) Such as is required for compliance with the Massachusetts Contingency Plan

The project is not relevant to the MCP.

(c) Strict compliance would result in severe economic hardship greater in magnitude than the public interest to be served, OR

No severe hardship would result if the work were to not occur, however, the disturbance of the grading is temporary and the area will be provided with additional native plant species. The proposed enhancement of the resources area does provide a general benefit.

d) A credible expert has demonstrated that the Resource Areas does not protect the public interests.

The following outlines the public interests protected in the Wetland Protections Act and the Needham Wetland Bylaw, and Riverfront Performance Standards and attempts to show how the resource area does or does not protect the interest.

Public water supply- The wetland system on the site is not associated with a public water supply. The 25' buffer area and riverfront area therefore do not protect the public interest of public water supply.

Private water supply- The wetland system in this area is not associated with a private water supply as the residences in this section are served by Town water. The 25' buffer area and riverfront area do not protect the public interest of private water supply.

Groundwater and groundwater quality- There is no BVW along this portion of the brook so any precipitation sheet flows to the brook or directly infiltrates in to the lawn. The amount of new impervious area on the lot consists of 1003 s.f. in the 100' Inner Riparian zone and 135 s.f. in the Outer Riparian Zone. None of this impervious area occurs within the 25' buffer. The increase in impervious are in the riverfront is being mitigated by the use of 4 Cultec drywell chambers and will therefore minimize the impact on groundwater.

Water quality in the numerous ponds of the Town – The 25' buffer is grass. Any benefit to the water quality to the ponds will be the same pre and post. The 25' buffer area and riverfront area may protect the public interest of water quality to the numerous ponds of the Town in a very minimal way such as soil stabilization and prevention of erosion, however, the work will have no impact on that interest. Site work will be temporary and erosion control will be installed, and exposed soils will be seeded to provide ongoing soil stabilization. There may be a minor improvement to water quality in that roof runoff will be infiltrated while it was not before, and the driveway will be pervious to also allow infiltration, therefore reducing runoff that may contain pollution.

Flood control- The area is not in a flood zone. Regardless, minor grading is proposed with an elevation change of approximately 2' at the most. Any function that these areas provide to contain flood water will be unaffected by the proposed work.

Erosion and sediment control- The 25' buffer and riverfront area in the location of the work is grass. The grass surface provides stabilization of the soils and prevents erosion into the adjacent wetland. The 25' buffer area and riverfront area in this location may provide some protection of the public interest of erosion control; however, after work is complete the all exposed soils will be provided with plantings or be maintained as lawn. Erosion control devices are to be installed during the work activity and will remain in place until the site is fully stabilized.

Storm damage prevention- The 25' buffer and riverfront area in the location of the work is grass. The grass surface provides stabilization of the soils and prevents erosion into the adjacent wetland during storm events thus aide in preventing further damage. The 25' buffer area and river front area in this location may provide some protection of the public interest of storm damage prevention in this regard; however, after work is after work is complete the all exposed soils will be provided with plantings or be maintained as lawn.

Water pollution- There may be an improvement to water quality in that roof runoff will be

infiltrated, therefore reducing runoff that may contain pollution or create erosion. The public interest of water pollution in the 25' buffer and riverfront areas will be negligible, if not slightly improved.

Wildlife and wildlife habitat- The site does not fall within a Priority or Estimated Habitat per NHESP 2008. The area of concern is partly maintained grass and existing house footprint. The river is artificially contained by stone retaining walls thus providing no true bank habitat function. The 25' buffer and riverfront area in this location do not provide protection of the public interest of wildlife habitat. The proposed plantings may increase wildlife habitat value.

Fisheries- There are no fisheries in the resource area on this site.

***No waiver shall be granted unless the Commission determines that:
There are not practicable alternatives to the proposed action;***

The grading to occur in the 25' No Disturb Zone is associated with the house, which has a larger footprint; and to have flat back yard.

Alteration of the resource area has been minimized to be the greatest extent practicable;

The only work proposed in the 25' No Disturb Zone is grading to create a flat yard and the subsequent new plantings. The removal of yard debris in the buffer and the new plantings provided are proposed to mitigate the impact.

The work will be performed all within the limit of work established erosion control.

Compensatory or mitigation measures are taken, even at an off-site location, to protect the public interest in the protected Resource Area to be removed, filled, dredged, built upon, or altered;

1) Plants will be installed throughout the proposed new planting area. All species will be native and chosen from "Plants of Needham, Massachusetts 2000-2002" list. There will be a minimum of 3 species from the approved list.

2) The additional impervious area within the jurisdiction of the Massachusetts Wetlands Protection Act will be handled with 4 cultic contractor 150XLHD drywell chambers.

3) Erosion control will be installed prior to any work on site and remain in functional condition until all surfaces are stable and the approved of the issuing authority

Sincerely,



Leah D. Basbanes, M.A.
Wetland Consultant/Biologist

Notification to Abutters Under the Massachusetts

Wetland Protection Act & the Needham Wetlands Protection Bylaw

In accordance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40, and Needham Wetlands Protection Bylaw (Article 6) you are hereby notified of the following:

The name of the applicant is **Robert Roach**

The applicant has filed a **Notice of Intent** with the Conservation Commission for the municipality of Needham, MA **for the razing and reconstruction of a single family home.**

The address of the lot where the activity is proposed is **10 Winfield Street**, (Assessor's Map 128 Parcel 061).

The hearing will be on **October 22, 2020**

Public Participation will be via Virtual Means Only - In light of the ongoing COVID-19 coronavirus outbreak, Governor Baker issued an emergency Order on March 12, 2020, allowing public bodies greater flexibility in utilizing technology in the conduct of meetings under the Open Meeting Law. The Needham Conservation Commission greatly values the participation of its citizens in the public meeting process, but given the current circumstances and recommendations at both the state and federal levels to limit or avoid public gatherings, including Governor Baker's ban on gatherings of more than 10 people, together with the present closure of Needham Town Hall, the Public Service Administration Building, and other public buildings, the Town has decided to implement the "remote participation" procedures allowed under Governor Baker's emergency Order for all boards, committees, and commissions. (More information about this order can be found on the back of this sheet.

The public may participate in this meeting via Remote Participation:

· From your computer, smart phone or tablet:

Link: <https://us02web.zoom.us/j/82316889821>

Meeting ID: 823 1688 9821

For the most up-to-date meeting credentials, or to access the meeting by phone, please refer to the meeting agenda. It will be posted to www.needhamma.gov at least 48 hours in advance of the meeting.

Copies of the application may be obtained digitally from the Conservation Commission Staff by emailing conservation@needhamma.gov. Alternatively, you may call our office at 781-455-7550 x222 and leave a message with your contact information and the project address and a Staff Member will return your call during regular business hours.

Notice of the public hearing, including its date, time and place, will be published at least five (5) days in advance in a newspaper of local distribution.

NOTE: You also may contact the nearest Department of Environmental Protection Regional Office for more information about this application or the MA Wetlands Protection Act. To contact the DEP, call the Northeast Region at 978-694-3200.

COVID-19 Emergency Response:

Implementation of Governor's Order Suspending Certain Provisions of the Open Meeting Law

In light of the ongoing COVID-19 coronavirus outbreak, Governor Baker issued an emergency Order on March 12, 2020, allowing public bodies greater flexibility in utilizing technology in the conduct of meetings under the Open Meeting Law. The Needham Conservation Commission greatly values the participation of its citizens in the public meeting process, but given the current circumstances and recommendations at both the state and federal levels to limit or avoid public gatherings, including Governor Baker's ban on gatherings of more than 25 people, together with the present closure of Needham Town Hall and other public buildings to the public, The Town of Needham has decided to implement the "remote participation" procedures allowed under Governor Baker's emergency Order for all boards, committees, and commissions. This means that:

1. All or any of the members of the public body may choose to participate in a public meeting via remote access. Meetings may be virtual, in their entirety.
2. The public will be provided with alternative access through which they can watch or listen to meetings "in real time," and meeting notices will specify the manner in which members of the public may access audio or video of the meeting as it is occurring.
3. If, despite our best efforts, our technological capabilities do not adequately support public access to virtual or remote meetings, the Needham Conservation Commission will ensure that an audio or video recording, transcript, or other comprehensive record of the proceedings at the meeting is posted on the Town's website as soon as possible after the meeting.
4. Notices for public hearings will contain additional information about how the public may participate via electronic/technological means.
5. Where individuals have a right, or are required, to attend a public meeting or hearing, they will be provided with information about how to participate in the meeting/hearing remotely.
6. Meeting notices will still be posted at least 48 hours in advance (not counting Saturdays, Sundays, or legal holidays), unless it is an emergency meeting as defined under the Open Meeting Law (in which event, the meeting notice will be posted with as much advanced notice as is possible in the circumstances). Minutes will still be taken.

Please check individual meeting agendas on the calendar on the Town's website, located at www.needhamma.gov for the latest information regarding meetings. Each meeting may experience unique circumstances that may require last minute changes in protocol, including cancellation or rescheduling. We appreciate your patience as we undergo this shift in a significant aspect of how the Town of Needham conducts business.

Pursuant to Governor Baker's March 12, 2020 Order Suspending Certain Provisions of the Open Meeting Law, G.L. c. 30A, §18, and the Governor's March 15, 2020 Order imposing strict limitation on the number of people that may gather in one place, this meeting of the Needham Conservation Commission will be conducted via remote participation to the greatest extent possible. Specific information and the general guidelines for remote participation by members of the public and/or parties with a right and/or requirement to attend this meeting can be found on the Town of Needham website, at www.needhamma.gov. For this meeting, members of the public who wish to listen and/or watch the meeting may do so in the manner stated on the previous page by navigating to the Zoom Meeting via a web browser or by calling in by phone. No in-person attendance of members of the public will be permitted, but every effort will be made to ensure that the public can adequately access the proceedings in real time, via technological means. In the event that we are unable to do so, despite best efforts, we will post on the Needham Conservation Commission webpage an audio or video recording, transcript, or other comprehensive record of proceedings as soon as possible after the meeting.

PLANTS OF NEEDHAM, MASSACHUSETTS 2000-2002

Family	Common name	Scientific Name	Origin	Status
			Native, Introduced	rare = 1 site; uncommon = 2 sites
FERNS				
	ebony spleenwort	<i>Asplenium platyneuron</i>	N	rare
	maidenhair spleenwort	<i>Asplenium trichomanes</i>	N	rare
	lady fern	<i>Athyrium filix-femina</i>	N	common
	hay-scented fern	<i>Dennstaedtia punctilobula</i>	N	common
	spinulose wood fern	<i>Dryopteris carthusiana</i>	N	common
	crested wood fern	<i>Dryopteris cristata</i>	N	common
	intermediate wood vern	<i>Dryopteris intermedia</i>	N	common
	marginal shield fern	<i>Dryopteris marginalis</i>	N	common
	water clover	<i>Marsilea quadrifolia</i>	I	common
	ostrich fern	<i>Matteuccia struthiopteris</i>	N	rare
	sensitive fern	<i>Onoclea sensibilis</i>	N	common
	cinnamon fern	<i>Osmunda cinnamomea</i>	N	common
	interrupted fern	<i>Osmunda claytoniana</i>	N	common
	royal fern	<i>Osmunda regalis</i>	N	common
	polypody	<i>Polypodium virginianum</i>	N	common
	bracken fern	<i>Pteridium aquilinum</i>	N	common
	New York fern	<i>Thelypteris novaboracensis</i>	N	common
	marsh fern	<i>Thelypteris palustris</i>	N	common
	Massachusetts fern	<i>Thelypteris simulata</i>	N	rare
	Virginia chain fern	<i>Woodwardia virginica</i>	N	rare
HORSETAILS				
	field scouring rush	<i>Equisetum arvense</i>	N	uncommon
CLUB MOSSES and SPIKEMOSSES				
	ground cedar	<i>Diphasiastrum digitatum</i>	N	common
	running clubmoss	<i>Lycopodium clavatum</i>	N	rare
	tree clubmoss	<i>Lycopodium obscurum</i>	N	common
	rock spikemoss	<i>Selaginella rupestris</i>	N	rare
CONIFERS				
Cedar Family - Cupressaceae				
	pasture jupiper	<i>Juniperus communis</i>	N	rare
	red cedar	<i>Juniperus virginiana</i>	N	common
Pine Family - Pinaceae				
	norway spruce	<i>Picea abies</i>	I	common
	blue spruce	<i>Picea pungens</i>	I	uncommon
	pitch pine	<i>Pinus rigida</i>	N	uncommon
	white pine	<i>Pinus strobus</i>	N	common
	scotch pine	<i>Pinus sylvestris</i>	I	common
	eastern hemlock	<i>Tsuga canadensis</i>	N	common
Yew Family - Taxaceae				
	cultivated yew	<i>Taxus cv</i>	I	common

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Family	Common name	Scientific Name	Origin	Status
FLOWERING PLANTS				
Maple Family - Aceraceae				
	box elder	<i>Acer negundo</i>	N	common
	norway maple	<i>Acer platanoides</i>	I	common
	sycamore maple	<i>Acer pseudoplatanus</i>	I	uncommon
	red maple	<i>Acer rubrum</i>	N	common
	silver maple	<i>Acer saccharinum</i>	N	uncommon
Water Plantain Family - Alismataceae				
	water plantain	<i>Alisma plantago-aquatica</i>	N	common
	common arrowhead	<i>Sagittaria latifolia</i>	N	common
Amaranth Family - Amaranthaceae				
	pigweed	<i>Amaranthus retroflexus</i>	I	rare
Cashew Family - Anacardiaceae				
	winged sumac	<i>Rhus coppalinum</i>	N	uncommon
	smooth sumac	<i>Rhus glabra</i>	N	common
	staghorn sumac	<i>Rhus hirta</i>	N	common
	poison ivy	<i>Toxicodendron radicans</i>	N	common
	poison sumac	<i>Toxicodendron vernix</i>	N	
Parsley Family - Apiaceae				
	goutweed	<i>Aegopodium podagraria</i>	I	uncommon
	bulb-bearing water hemlock	<i>Cicuta bulbifera</i>	N	rare
	water hemlock	<i>Cicuta maculata</i>	N	uncommon
	poison hemlock	<i>Conium maculatum</i>	I	rare
	queen anne's lace	<i>Daucus carota</i>	I	common
	water pennywort	<i>Hydrocotyle americana</i>	N	uncommon
	water parsnip	<i>Sium suave</i>	N	rare
Dogbane Family - Apocynaceae				
	spreading dogbane	<i>Apocynum androsaemifolium.</i>	N	common
	periwinkle	<i>Vinca minor</i>	I	common
Holly Family - Aquifoliaceae				
	winterberry	<i>Ilex verticillata</i>	N	common
Arum Family - Araceae				
	jack-in-the-pulpit	<i>Arisaema triphyllum</i>	N	common
	calla	<i>Calla palustris</i>	N	uncommon
	arrow arum	<i>Peltandra virginica</i>	N	common
	skunk cabbage	<i>Symplocarpus foetidus</i>	N	common
Aralia Family - Araliaceae				
	bristly sasparilla	<i>Aralia hispida</i>	N	rare
	wild sasparilla	<i>Aralia nudicaulis</i>	N	common

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Milkweed Family - Asclepiadaceae				
	poke milkweed	<i>Asclepias exaltata</i>	N	uncommon
	swamp milkweed	<i>Asclepias incarnata</i>	N	common
	milkweed	<i>Asclepias syriaca</i>	N	common
	black swallowwort	<i>Cynanchum louiseae</i>	I	common
	pale swallowwort	<i>Cynanchum rossicum</i>	I	uncommon
Composite Family - Asteraceae				
	yarrow	<i>Achillea millefolium</i>	I	common
	ragweed	<i>Ambrosia artemisiifolia</i>	N	common
	pearly everlasting	<i>Anaphalis margaritacea</i>	I	common
	pussytoes	<i>Antennaria neglecta</i>	N	rare
	pussytoes	<i>Antennaria plantaginifolia</i>	N	rare
	burdock	<i>Arctium minus</i>	I	common
	mugwort	<i>Artemisia vulgaris</i>	I	common
	sharp-leaved aster	<i>Aster acuminatus</i>	N	rare
	northern heart-leaved aster	<i>Aster ciliolatus</i>	N	rare
	heart-leaved aster	<i>Aster cordifolius</i>	N	rare
	white wood aster	<i>Aster divaricatus</i>	N	common
	calico aster	<i>Aster lateriflorus</i>	N	common
	large-leaved aster	<i>Aster macrophyllus</i>	N	common
	late purple aster	<i>Aster patens</i>	N	rare
	toothed white-topped aster	<i>Aster paternus</i>	N	rare
	purple-stemmed aster	<i>Aster puniceus</i>	N	rare
	tartarian aster	<i>Aster tartaricus</i>	I	rare
	flat-topped aster	<i>Aster umbellatus</i>	N	rare
	swamp beggars ticks	<i>Bidens connata</i>	N	rare
	tickseed sunflower	<i>Bidens coronata</i>	N	rare
	beggars ticks	<i>Bidens frondosa</i>	N	common
	chicory	<i>Cichorium intybus</i>	I	common
	canada thistle	<i>Cirsium arvense</i>	I	uncommon
	common thistle	<i>Cirsium vulgare</i>	I	rare
	horseweed	<i>Conyza canadensis</i>	N	common
	coreopsis	<i>Coreopsis grandiflora</i>	I	rare
	pilewort	<i>Erechtites hieraciifolia</i>	N	common
	daisy fleabane	<i>Erigeron annuus</i>	N	common
	common fleabane	<i>Erigeron philadelphicus</i>	N	rare
	lesser daisy fleabane	<i>Erigeron strigosus</i>	N	common
	eastern joe-pye-weed	<i>Eupatorium dubium</i>	N	common
	spotted joe-pye-weed	<i>Eupatorium maculatum</i>	N	common
	boneset	<i>Eupatorium perfoliatum</i>	N	rare
	round-leaved boneset	<i>Eupatorium rotundifolium var ovatum</i>	N	rare
	grass-leaved goldenrod	<i>Euthamia graminifolia</i>	N	common
	low cudweed	<i>Gnaphalium uliginosum</i>	N	common
	winged sneezeweed	<i>Helenium flexuosum</i>	I	rare
	woodland sunflower	<i>Helianthus divaricatus</i>	N	uncommon
	meadow hawkweed	<i>Hieracium caespitosum</i>	I	common
	canada hawkweed	<i>Hieracium canadense</i>	N	rare
	panicled hawkweed	<i>Hieracium paniculatum</i>	N	uncommon
	Savoy hawkweed	<i>Hieracium sabaudum</i>	I	common
	rattlesnake hawkweed	<i>Hieracium venosum</i>	N	uncommon

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Family	Common name	Scientific Name	Origin	Status
	whip hawkweed	<i>Hieracium x flagellare</i>	I	uncommon
	cats ears	<i>Hypochaeris radicata</i>	I	common
	stiff-leaved aster	<i>Ionactis linariifolius</i>	N	rare
	wild blue lettuce	<i>Lactuca biennis</i>	N	common
	wild lettuce	<i>Lactuca canadensis</i>	N	common
	autumn dandelion	<i>Leontodon autumnalis</i>	I	common
	daisy	<i>Leucanthemum vulgare</i>	I	common
	pineapple weed	<i>Matricaria discoidea</i>	I	common
	tall white lettuce	<i>Prenanthes altissima</i>	N	common
	tall rattlesnake root	<i>Prenanthes trifoliolata</i>	N	common
	black-eyed susan	<i>Rudbeckia hirta</i>	I	common
	cup plant	<i>Silphium perfoliatum</i>	I	rare
	silverrod	<i>Solidago bicolor</i>	N	uncommon
	blue-stem goldenrod	<i>Solidago caesia</i>	N	common
	canada goldenrod	<i>Solidago canadensis</i>	N	common
	late goldenrod	<i>Solidago gigantea</i>	N	uncommon
	early goldenrod	<i>Solidago juncea</i>	N	common
	gray goldenrod	<i>Solidago nemoralis</i>	N	rare
	rough goldenrod	<i>Solidago rugosa</i>	N	common
	spiny-leaved sow thistle	<i>Sonchus asper</i>	I	uncommon
	common sow thistle	<i>Sonchus oleraceus</i>	I	rare
	tansy	<i>Tanacetum vulgare</i>	I	common
	dandelion	<i>Taraxacum officinale</i>	I	common
Touch-Me-Not Family - Balsaminaceae				
	jewelweed	<i>Impatiens capensis</i>	N	common
Barberry Family - Berberidaceae				
	japanese barberry	<i>Berberis thunbergii</i>	I	common
	korean barberry	<i>Berberis vulgaris</i>	I	uncommon
Birch Family - Betulaceae				
	alder	<i>Alnus serrulata</i>	N	common
	yellow birch	<i>Betula allegheniensis</i>	N	rare
	black birch	<i>Betula lenta</i>	N	common
	river birch	<i>Betula nigra</i>	N	rare
	paper birch	<i>Betula papyrifera</i>	N	rare
	gray birch	<i>Betula populifolia</i>	N	common
	ironwood	<i>Carpinus caroliniana</i>	N	rare
	hazelnut	<i>Corylus americana</i>	N	common
	beaked hazelnut	<i>Corylus cornuta</i>	N	common
	hop hornbean	<i>Ostrya virginiana</i>	N	common
Trumpet Creeper Family - Bignoniaceae				
	catalpa	<i>Catalpa bignonioides</i>	I	uncommon
Borage Family - Boraginaceae				
	viper's bugloss	<i>Echium vulgare</i>	I	rare
	forget me not	<i>Myosotis scorpioides</i>	I	uncommon

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Mustard Family - Brassicaceae				
	garlic mustard	<i>Alliaria petiolata</i>	I	common
	mouse-ear cress	<i>Arabidopsis thaliana</i>	I	rare
	winter cress	<i>Barbarea vulgaris</i>	I	uncommon
	hoary alyssum	<i>Berteroa incana</i>	I	uncommon
	shepard's purse	<i>Capsella bursa-pastoris</i>	I	uncommon
	common bitter cress	<i>Cardamine pensylvanica</i>	N	uncommon
	hare's-ear mustard	<i>Conringia orientalis</i>	I	uncommon
	whitlow grass	<i>Draba verna</i>	I	uncommon
	dame's rocket	<i>Hesperis matronalis</i>	I	uncommon
	field cress	<i>Lepidium campestre</i>	I	uncommon
	wild peppergrass	<i>Lepidium virginicum</i>	N	common
	water cress	<i>Rorippa nasturtium-aquaticum</i>	I	uncommon
	hedge mustard	<i>Sisymbrium officinale</i>	I	rare
Boxwood Family - Buxaceae				
	pachysandra	<i>Pachysandra terminalis</i>	I	rare
Water Shield Family = Cabombaceae				
	fanwort	<i>Cabomba caroliniana</i>	I	uncommon
Starwort Family - Callitrichaceae				
	variable water starwort	<i>Callitriche heterophylla</i>	N	uncommon
	spring water starwort	<i>Callitriche palustris</i>	N	common
Bellflower Family - Campanulaceae				
	marsh bellflower	<i>Campanula aparinoides</i>	N	rare
	creeping bellflower	<i>Campanula rapunculoides</i>	I	common
	indian tobacco	<i>Lobelia inflata</i>	N	uncommon
Hops Family - Cannabaceae				
	hops	<i>Humulus lupulus</i>	I	rare
Honeysuckle Family - Caprifoliaceae				
	bush honeysuckle	<i>Diervilla lonicera</i>	N	common
	japanese honeysuckle	<i>Lonicera japonica</i>	I	uncommon
	Morrow honeysuckle	<i>Lonicera morrowii</i>	I	common
	belle honeysuckle	<i>Lonicera x bella</i>	I	uncommon
	Tartarian honeysuckle	<i>Lonicera tartarica</i>	I	uncommon
	elderberry	<i>Sambucus canadensis</i>	N	common
	maple-leaved viburnum	<i>Viburnum acerifolium</i>	N	common
	arrowwood	<i>Viburnum dentatum</i>	N	common
	nannyberry	<i>Viburnum lentago</i>	N	uncommon
	wild raisin	<i>Viburnum nudum</i>	N	common
	wild cranberry	<i>Viburnum opulus var opulus</i>	I	common
Pink Family - Caryophyllaceae				
	field chickweed	<i>Cerastium arvense</i>	N	common
	mouse-ear chickweed	<i>Cerastium fontanum</i>	I	uncommon
	little mouse-ear chickweed	<i>Cerastium semidecandrum.</i>	I	uncommon
	Deptford pink	<i>Dianthus armeria</i>	I	common

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Family	Common name	Scientific Name	Origin	Status
	ragged robin	<i>Lychnis flos-cuculi</i>	I	rare
	grove sandwort	<i>Moehringia lateriflora</i>	N	rare
	japanese pearlwort	<i>Sagina japonica</i>	I	rare
	bouncing bet	<i>Saponaria officinalis</i>	I	common
	annual knawel	<i>Scleranthus annuus</i>	I	common
	white campion	<i>Silene latifolia</i>	I	uncommon
	night-flowering catchvly	<i>Silene noctiflora</i>	I	uncommon
	bladder campion	<i>Silene vulgaris</i>	I	common
	common stitchwort	<i>Stellaria graminea</i>	I	common
	common chickweed	<i>Stellaria media</i>	I	uncommon
Staff-Tree Family - Celastraceae				
	oriental bittersweet	<i>Celastrus orbiculata</i>	I	common
	winged euonymus	<i>Euonymus alata</i>	I	common
	European spindle tree	<i>Euonymus europaea</i>	I	uncommon
	winter creeper	<i>Euonymus fortunei</i>	I	common
Hornwort Family - Ceratophyllaceae				
	hornwort	<i>Ceratophyllum demersum</i>	N	common
Goosefoot Family - Chenopodiaceae				
	lamb's quarters	<i>Chenopodium album</i>	I	common
Rockrose Family - Cistaceae				
	hoary frostweed	<i>Helianthemum bicknellii</i>	N	rare
	large-fruited pinweed	<i>Lechea intermedia</i>	N	uncommon
	hairy pinweed	<i>Lechea mucronata</i>	N	rare
	slender pinweed	<i>Lechea tenuifolia</i>	N	uncommon
White Alder Family - Clethraceae				
	sweet pepperbush	<i>Clethra alnifolia</i>	N	common
St John's Wort Family - Clusiaceae				
	northern St. John's wort	<i>Hypericum boreale</i>	N	rare
	Canada St. John's wort	<i>Hypericum canadense</i>	N	uncommon
	orange grass	<i>Hypericum gentianoides</i>	N	rare
	common St. John's wort	<i>Hypericum perforatum</i>	I	common
	spotted St. John's wort	<i>Hypericum punctatum</i>	I	common
	marsh St. John's wort	<i>Triadenum virginicum</i>	N	common
Dayflower Family - Commelinaceae				
	dayflower	<i>Commelina communis</i>	I	rare
	spiderlily	<i>Tradescantia virginiana</i>	I	rare
Morning Glory Family - Convolvulaceae				
	wild morning glory	<i>Calystegia sepium</i>	N	common
Dogwood Family - Cornaceae				
	silky dogwood	<i>Cornus amomum</i>	N	common
	flowering dogwood	<i>Cornus florida</i>	N	common
	gray dogwood	<i>Cornus racemosa</i>	N	common

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Stonecrop Family - Crassulaceae				
	mossy stonecrop	<i>Sedum acre</i>	I	rare
Gourd Family - Cucurbitaceae				
	wild cucumber	<i>Sicyos angulata</i>	N	rare
Dodder Family - Cuscutaceae				
	dodder	<i>Cuscuta gronovii</i>	N	common
Sedge Family - Cyperaceae				
	sand sedge	<i>Bulbostylis capillaris</i>	N	rare
	yellow fox sedge	<i>Carex annectens</i>	N	common
	Atlantic prickly sedge	<i>Carex atlantica ssp atlantica</i>	N	rare
	threadstem sedge	<i>Carex atlantica spp capillacea</i>	N	rare
	woodland sedge	<i>Carex blanda</i>	N	common
	short fescue sede	<i>Carex brevior</i>	N	uncommon
	brome sedge	<i>Carex bromoides</i>	N	uncommon
	silvery bog sedge	<i>Carex canescens</i>	N	rare
	oval-headed sedge	<i>Carex cephalophora</i>	N	common
	bottlebrush sedge	<i>Carex comosa</i>	N	rare
	European star sedge	<i>Carex contigua</i>	I	uncommon
	fringed sedge	<i>Carex crinita</i>	N	common
	crowned sedge	<i>Carex cumulata</i>	N	rare
	stalked sedge	<i>Carex debilis</i>	N	common
	slender wood sedge	<i>Carex digitalis</i>	N	rare
	slender drooping sedge	<i>Carex gracillima</i>	N	rare
	Hayden's sedge	<i>Carex haydenii</i>	N	rare
	hairy sedge	<i>Carex hirta</i>	I	rare
	bladder sedge	<i>Carex intumescens</i>	N	rare
	lakeside sedge	<i>Carex lacustris</i>	N	common
	broad wooly-fruited sedge	<i>Carex lanuginosa</i>	N	uncommon
	slender wooly-fruited sedge	<i>Carex lasiocarpa</i>	N	rare
	spreading wood sedge	<i>Carex laxiculmis</i>	N	common
	one-nerved wood sedge	<i>Carex leptoneuria</i>	N	rare
	Long's sedge	<i>Carex longii</i>	N	rare
	long-beaked Pennsylvania sedge	<i>Carex lucorum</i>	N	rare
	hop sedge	<i>Carex lupulina</i>	N	uncommon
	sallow sedge	<i>Carex lurida</i>	N	common
	Fernald's sedge	<i>Carex merritt-fernaldii</i>	N	uncommon
	big straw sedge	<i>Carex normalis</i>	N	common
	shining green sedge	<i>Carex pallescens</i>	N	rare
	Pennsylvania sedge	<i>Carex pensylvanica</i>	N	common
	beaded broom sedge	<i>Carex projecta</i>	N	uncommon
	big star sedge	<i>Carex rosea</i>	N	common
	stiff sand sedge	<i>Carex rugosperma var tonsa</i>	N	common
	broom sedge	<i>Carex scoparia</i>	N	common
	awl-fruited sedge	<i>Carex stipata</i>	N	common
	tussock sedge	<i>Carex stricta</i>	N	common
	Swan's sedge	<i>Carex swanii</i>	N	common
	slender straw sedge	<i>Carex tenera</i>	N	uncommon

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	blunt broom sedge	<i>Carex tribuloides</i>	N	common
	bottle sedge	<i>Carex utriculata</i>	N	uncommon
	inflated sedge	<i>Carex vesicaria</i>	N	uncommon
	velvet-fruited sedge	<i>Carex vestita</i>	N	common
	fox sedge	<i>Carex vulpinoidea</i>	N	common
	slender sand flatsedge	<i>Cyperus lupulinus</i>	N	uncommon
	straw-colored flatsedge	<i>Cyperus strigosus</i>	N	common
	three-way sedge	<i>Dulichium arundinaceum</i>	N	common
	ovate spike rush	<i>Eleocharis obtusa</i>	N	uncommon
	creeping spike rush	<i>Eleocharis palustris</i>	N	uncommon
	slender spike rush	<i>Eleocharis tenuis</i>	N	rare
	brown beak rush	<i>Rhynchospora capitellata</i>	N	rare
	black bulrush	<i>Scirpus atrovirens</i>	N	common
	wool grass	<i>Scirpus cyperinus</i>	N	common
	soft-stemmed bulrush	<i>Scirpus taebernaemontani</i>	N	rare
Sundew Family - Droseraceae				
	round-leaved sundew	<i>Drosera rotundifolia</i>	N	rare
Oleaster Family - Elaeagnaceae				
	autumn olive	<i>Elaeagnus umbellata</i>	I	uncommon
Heather Family - Ericaceae				
	bearberry	<i>Arctostaphylos uva-ursi</i>	N	rare
	leatherleaf	<i>Chamaedaphne calyculata</i>	N	common
	wintergreen	<i>Gaultheria procumbens</i>	N	common
	huckleberry	<i>Gaylussacia baccata</i>	N	common
	dangle berry	<i>Gaylussacia frondosa</i>	N	common
	sheep laurel	<i>Kalmia angustifolia</i>	N	common
	fetterbush	<i>Leucothoe racemosa</i>	N	common
	maleberry	<i>Lyonia ligustrina</i>	N	common
	swamp azalea	<i>Rhododendron viscosum</i>	N	common
	late sweet lowbush blueberry	<i>Vaccinium angustifolium</i>	N	common
	highbush blueberry	<i>Vaccinium corymbosum</i>	N	common
	large cranberry	<i>Vaccinium macrocarpon</i>	N	uncommon
	early sweet lowbush blueberry	<i>Vaccinium pallidum</i>	N	common
Spurge Family - Euphorbiaceae				
	broad three-seeded mercury	<i>Acalypha rhomboidea</i>	N	common
	cypress spurge	<i>Euphorbia cyparissus</i>	I	common
	spotted spurge	<i>Chamaesyce maculata</i>	N	common
Pea Family - Fabaceae				
	false indigo	<i>Amorpha fruticosa</i>	I	uncommon
	hog peanut	<i>Amphicarpaea bracteata</i>	N	uncommon
	groundnut	<i>Apios americana</i>	N	common
	yellow wild indigo	<i>Baptisia tinctoria</i>	N	common
	crown vetch	<i>Coronilla varia</i>	I	uncommon
	scotch broom	<i>Cytissus scoparius</i>	I	rare
	naked tick-trefoil	<i>Desmodium nudiflorum</i>	N	rare
	narrow-leaved tick-trefoil	<i>Desmodium paniculatum</i>	N	rare

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Family	Common name	Scientific Name	Origin	Status
	prostrate tick-trefoil	<i>Desmodium rotundifolium</i>	N	rare
	round-headed bush clover	<i>Lespedeza capitata</i>	N	uncommon
	hairy bush clover	<i>Lespedeza hirta</i>	N	common
	wand bush clover	<i>Lespedeza intermedia</i>	N	uncommon
	birdsfoot trefoil	<i>Lotus corniculatus</i>	I	common
	black medick	<i>Medicago lupulina</i>	I	uncommon
	lucerne	<i>Medicago sativa</i>	I	rare
	white sweet clover	<i>Melilotis alba</i>	I	uncommon
	black locust	<i>Robinia pseudoacacia</i>	I	common
	rabbit foot clover	<i>Trifolium arvense</i>	I	common
	yellow hop clover	<i>Trifolium aureum</i>	I	rare
	low hop clover	<i>Trifolium campestre</i>	I	uncommon
	alsike clover	<i>Trifolium hybridum</i>	I	common
	red clover	<i>Trifolium pratense</i>	I	uncommon
	white clover	<i>Trifolium repens</i>	I	common
	cow vetch	<i>Vicia cracca</i>	I	common
	four-seeded vetch	<i>Vicia tetrasperma</i>	I	uncommon
	hairy vetch	<i>Vicia villosa</i>	I	common
Oak Family - Fagaceae				
	american chestnut	<i>Castanea dentata</i>	N	common
	beech	<i>Fagus grandifolia</i>	N	common
	white oak	<i>Quercus alba</i>	N	common
	swamp white oak	<i>Quercus bicolor</i>	N	common
	scarlet oak	<i>Quercus coccinea</i>	N	common
	scrub oak	<i>Quercus ilicifolia</i>	N	common
	pin oak	<i>Quercus palustris</i>	N	common
	dwarf chestnut oak	<i>Quercus prinoides</i>	N	uncommon
	red oak	<i>Quercus rubra</i>	N	common
	black oak	<i>Quercus velutina</i>	N	common
Fumitory Family - Fumariaceae				
	pink corydalis	<i>Corydalis sempervirens</i>	N	uncommon
Gentian Family - Gentianaceae				
	screw-stem	<i>Bartonia virginica</i>	N	rare
Geranium Family - Geraniaceae				
	wild geranium	<i>Geranium maculatum</i>	N	common
	herb-robert	<i>Geranium robertianum</i>	N	rare
Gooseberry Family - Grossulariaceae				
	red currant	<i>Ribes rubrum</i>	I	rare
Water Milfoil Family - Haloragaceae				
	eurasian milfoil	<i>Myriophyllum spicatum</i>	I	common
Witch Hazel Family - Hamamelidaceae				
	witch hazel	<i>Hamamelis virginiana</i>	N	common

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Family	Common name	Scientific Name	Origin	Status
Hydrangea Family - Hydrangeaceae				
	peegee hydrangea	<i>Hydrangea paniculata</i>	I	rare
	European mock orange	<i>Philadelphus coronarius</i>	I	uncommon
Frog's Bit Family - Hydrocharitaceae				
	Brazilian water weed	<i>Egeria densa</i>	I	uncommon
	Northern water weed	<i>Elodea canadensis</i>	N	common
	wild celery	<i>Vallisneria americana</i>	N	common
Iris Family - Iridaceae				
	yellow iris	<i>Iris pseudacorus</i>	I	common
	blue flag	<i>Iris versicolor</i>	N	common
Hickory Family - Juglandaceae				
	mockernut	<i>Carya alba</i>	N	uncommon
	bitternut	<i>Carya cordiformis</i>	N	uncommon
	pignut	<i>Carya glabra</i>	N	common
	false shagbark hickory	<i>Carya ovata</i>	N	common
	shagbark hickory	<i>Carya ovalis</i>	N	common
Rush Family - Juncaceae				
	sharp-fruited rush	<i>Juncus acuminatus</i>	N	rare
	narrow rush	<i>Juncus brevicaudatus</i>	N	rare
	Canada rush	<i>Juncus canadensis</i>	N	rare
	soft rush	<i>Juncus effusus</i>	N	common
	Greene's rush	<i>Juncus greenei</i>	N	rare
	path rush	<i>Juncus tenuis</i>	N	common
	wood rush	<i>Luzula multiflora</i>	N	common
Mint Family - Lamiaceae				
	hemp nettle	<i>Galeopsis bifida</i>	I	uncommon
	gill-over-the-ground	<i>Glechoma hederacea</i>	I	uncommon
	purple dead nettle	<i>Lamium purpureum</i>	I	rare
	motherwort	<i>Leonurus cardiaca</i>	I	rare
	American water horehound	<i>Lycopus americanus</i>	N	rare
	common water horehound	<i>Lycopus uniflorus</i>	N	uncommon
	Virginia water horehound	<i>Lycopus virginicus</i>	N	uncommon
	wild mint	<i>Mentha canadensis</i>	N	rare
	selfheal	<i>Prunella vulgaris</i>	I	common
	common skullcap	<i>Scutellaria galericulata</i>	N	rare
	mad-dog skullcap	<i>Scutellaria lateriflora</i>	N	rare
	hybrid skullcap	<i>Scutellaria x churchilliana</i>	N	common
	woundwort	<i>Stachys palustris</i>	I	rare
	blue curls	<i>Trichostema dichotomum</i>	N	rare
Laurel Family - Lauraceae				
	spicebush	<i>Lindera benzoin</i>	N	uncommon
	sassafras	<i>Sassafras albidum</i>	N	common

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Family	Common name	Scientific Name	Origin	Status
Duckweed Family - Lemnaceae				
	duckweed	<i>Lemna minor</i>	N	common
	big duckweed	<i>Spirodela polyrrhiza</i>	N	common
	papillate water meal	<i>Wolffia brasiliensis</i>	N	uncommon
	globose water meal	<i>Wolffia columbiana</i>	N	common
Bladderwort Family - Lentibulariaceae				
	lesser bladderwort	<i>Utricularia minor</i>	N	rare
	common bladderwort	<i>Utricularia macrorrhiza</i>	N	uncommon
Lily Family - Liliaceae				
	field garlic	<i>Allium vineale</i>	I	rare
	asparagus	<i>Asparagus officinalis</i>	I	uncommon
	lily of the valley	<i>Convallaria majalis</i>	I	common
	day lily	<i>Heimerocallis fulva</i>	I	common
	yellow star grass	<i>Hypoxis hirsuta</i>	N	common
	canada lily	<i>Lilium canadense</i>	N	rare
	canada mayflower	<i>Maianthemum canadense</i>	N	common
	false solomon's seal	<i>Maianthemum racemosum</i>	N	common
	indian cucumber root	<i>Medeola virginiana</i>	N	common
	solomon's seal	<i>Polygonatum pubescens</i>	N	common
	nodding trillium	<i>Trillium cernuum</i>	N	rare
	sessile-leaved bellwort	<i>Uvularia sessilifolia</i>	N	common
	false hellebore	<i>Veratrum viride</i>	N	rare
Loosestrife Family - Lythraceae				
	water willow	<i>Decodon verticillatus</i>	N	common
	purple loosestrife	<i>Lythrum salicaria</i>	I	common
Mallow Family - Malvaceae				
	swamp mallow	<i>Hibiscus moscheutos</i>	N	common
Carpetweed Family - Molluginaceae				
	carpetweed	<i>Mollugo verticillata</i>	I	uncommon
Indian Pipe Family - Monotropaceae				
	pine sap	<i>Monotropa hypopitys</i>	N	uncommon
	indian pipe	<i>Monotropa uniflora</i>	N	common
Mulberry Family - Moraceae				
	white mulberry	<i>Morus alba</i>	I	rare
Sweet Gale Family - Myricaceae				
	sweet fern	<i>Comptonia peregrina</i>	N	common
Water Lily Family - Nymphaeaceae				
	white water lily	<i>Nymphaea odorata</i>	N	common
	spatterdock	<i>Nuphar variegata</i>	N	common
Tupelo Family - Nyssaceae				
	tupelo	<i>Nyssa sylvatica</i>	N	common

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Family	Common name	Scientific Name	Origin	Status
Olive Family - Oleaceae				
	white ash	<i>Fraxinus americana</i>	N	common
	green ash	<i>Fraxinus pennsylvanica</i>	N	uncommon
	privet	<i>Ligustrum vulgare</i>	I	common
Evening Primrose Family - Onagraceae				
	enchanter's nightshade	<i>Circaea lutetiana</i>	N	common
	glandular willow herb	<i>Epilobium ciliatum</i>	N	uncommon
	eastern willow herb	<i>Epilobium coloratum</i>	N	rare
	water purslane	<i>Ludwigia palustris</i>	N	uncommon
	common evening primrose	<i>Oenothera biennis</i>	N	common
Orchid Family- Orchidaceae				
	pink lady's slipper	<i>Cypripedium acaule</i>	N	common
	helleborine	<i>Epipactis helleborine</i>	I	uncommon
	rattlesnake plantain	<i>Goodyera pubescens</i>	N	uncommon
Broomrape Family - Orobanchaceae				
	beech drops	<i>Epifagus virginiana</i>	N	rare
Wood Sorrel Family - Oxalidaceae				
	showy yellow wood sorrel	<i>Oxalis dillenii</i>	N	common
	common yellow wood sorrel	<i>Oxalis stricta</i>	N	common
Poppy Family - Papaveraceae				
	celandine	<i>Chelidonium majus</i>	I	common
	plume poppy	<i>Macleaya cordata</i>	I	rare
	bloodroot	<i>Sanguinaria canadensis</i>	N	rare
Pokeweed Family - Phytolaccaceae				
	pokeweed	<i>Phytolacca americana</i>	N	common
Plantain Family - Plantaginaceae				
	English plantain	<i>Plantago lanceolata</i>	I	common
	rat-tail plantain	<i>Plantago aristata</i>	I	common
	common plantain	<i>Plantago major</i>	I	common
	American plantain	<i>Plantago rugelii</i>	N	common
Grass Family - Poaceae				
	velvet bentgrass	<i>Agrostis canina</i>	I	rare
	Rhode Island bentgrass	<i>Agrostis capillaris</i>	I	rare
	redtop	<i>Agrostis gigantea</i>	I	common
	southern ticklegrass	<i>Agrostis hyemalis</i>	N	rare
	upland bentgrass	<i>Agrostis perennans</i>	N	common
	northern ticklegrass	<i>Agrostis scabra</i>	N	uncommon
	meadow foxtail	<i>Alopecurus pratensis</i>	I	rare
	sweet vernal grass	<i>Anthoxanthum odoratum</i>	I	common
	poverty grass	<i>Aristida dichotoma</i>	N	common
	prairie three-awn	<i>Aristida oligantha</i>	I	uncommon
	tall oat grass	<i>Arrhenatherum elatius</i>	I	uncommon

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Family	Common name	Scientific Name	Origin	Status
	awned woodgrass	<i>Brachyelytrum erectum</i>	N	common
	smooth brome	<i>Bromus inermis</i>	I	common
	cheat grass	<i>Bromus tectorum</i>	I	common
	canada blue-joint	<i>Calamagrostis canadensis</i>	N	common
	reed blue-joint	<i>Calamagrostis coarctata</i>	N	rare
	common wood reedgrass	<i>Cinna arundinacea</i>	N	common
	orchard grass	<i>Dactylis glomerata</i>	I	common
	poverty grass	<i>Danthonia spicata</i>	N	common
	common hairgrass	<i>Deschampsia flexuosa</i>	N	rare
	fasicled panic grass	<i>Dichanthelium acuminatum</i>	N	common
	northern panic grass	<i>Dichanthelium boreale</i>	N	common
	deer tongue	<i>Dichanthelium clandestinum</i>	N	common
	depaperate panic grass	<i>Dichanthelium depauperatum</i>	N	common
	forked panic grass	<i>Dichanthelium dichotomum</i>	N	common
	linear-leaved panic grass	<i>Dichanthelium linearifolium</i>	N	uncommon
	Scribner's panic grass	<i>Dichanthelium oligosanthos</i>	N	rare
	round-fruited panic grass	<i>Dichanthelium spaerocarpon</i>	N	rare
	villous panic grass	<i>Dichanthelium villosissimum</i>	N	common
	smooth crabgrass	<i>Digitaria ischameum</i>	I	common
	tall crabgrass	<i>Digitaria sanguinalis</i>	I	common
	barnyard grass	<i>Echinochloa crus-galli</i>	I	rare
	cockspur grass	<i>Echinochloa muricata</i>	N	rare
	goose grass	<i>Eleusine indica</i>	I	rare
	quack grass	<i>Elytrigia repens</i>	I	common
	skunk grass	<i>Eragrostis cilianensis</i>	I	rare
	tufted love grass	<i>Eragrostis pectinacea</i>	N	rare
	India love grass	<i>Eragrostis pilosa</i>	I	uncommon
	purple love grass	<i>Eragrostis spectabilis</i>	N	common
	tall fescue	<i>Festuca arundinacea</i>	I	common
	hair fescue	<i>Festuca filiformis</i>	I	common
	sheep fescue	<i>Festuca ovina</i>	I	common
	red fescue	<i>Festuca rubra</i>	N	common
	hard fescue	<i>Festuca trachyphylla</i>	I	common
	canada manna-grass	<i>Glyceria canadensis</i>	N	common
	tall manna-grass	<i>Glyceria grandis</i>	N	rare
	coastal manna grass	<i>Glyceria obtusa</i>	N	rare
	eastern floatgrass	<i>Glyceria septentrionalis</i>	N	rare
	fowl manna grass	<i>Glyceria striata</i>	N	common
	velvet grass	<i>Holcus lanatus</i>	I	rare
	rice cutgrass	<i>Leersia oryzoides</i>	N	rare
	perennial ryegrass	<i>Lolium perenne</i>	I	uncommon
	marsh timothy	<i>Muhlenbergia glomerata</i>	N	rare
	spreading rice grass	<i>Oryzopsis asperifolia</i>	N	uncommon
	fall panic grass	<i>Panicum dichotomiflorum</i>	N	uncommon
	canary reed brass	<i>Phalaris arundinacea</i>	I	common
	timothy	<i>Phleum pratense</i>	I	common
	common reed	<i>Phragmites australis</i>	I	common
	annual bluegrass	<i>Poa annua</i>	I	common
	Canada bluegrass	<i>Poa compressa</i>	I	common
	woodland bluegrass	<i>Poa nemoralis</i>	I	rare
	fowl meadow grass	<i>Poa palustris</i>	N	common

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Family	Common name	Scientific Name	Origin	Status
	kentucky bluegrass	<i>Poa pratensis</i>	I	common
	rough bluegrass	<i>Poa trivialis</i>	I	rare
	little bluestem	<i>Schizachyrium scoparium</i>	N	common
	foxtail grass	<i>Setaria viridis</i>	I	common
	freshwater cordgrass	<i>Spartina pectinata</i>	N	rare
	rough dropseed	<i>Sporobolus compositus</i>	I	rare
	poverty grass	<i>Sporobolus vaginiflorus</i>	N	uncommon
Milkwort Family - Polygalaceae				
	bitter milkwort	<i>Polygala polygama</i>	N	rare
	purple milkwort	<i>Polygala sanguinea</i>	N	rare
Smartweed Family - Polygonaceae				
	water smartweed	<i>Polygonum amphibium</i>	N	common
	halberd-leaved tearthumb	<i>Polygonum arifolium</i>	N	common
	doorweed	<i>Polygonum aviculare</i>	I	rare
	japanese knotweed	<i>Polygonum cuspidatum</i>	I	common
	false water pepper	<i>Polygonum hydropiperoides</i>	N	rare
	lady's thumb	<i>Polygonum persicaria</i>	I	common
	dotted smartweed	<i>Polygonum punctatum</i>	N	rare
	arrow-leaf tearthumb	<i>Polygonum sagittatum</i>	N	common
	climbing false buckwheat	<i>Polygonum scandens</i>	N	rare
	sheep sorrel	<i>Rumex acetosella</i>	I	common
	curly dock	<i>Rumex crispus</i>	I	common
	bitter dock	<i>Rumex obtusifolius</i>	I	common
	great water dock	<i>Rumex orbicularis</i>	N	rare
Pickrelweed Family - Pontederiaceae				
	pickrel weed	<i>Pontederia cordata</i>	N	common
Pondweed Family - Potamogetonaceae				
	curly pondweed	<i>Potamogeton crispus</i>	I	rare
	ribbon-leaf pondweed	<i>Potamogeton epiphydrus</i>	N	common
	floating pondweed	<i>Potamogeton natans</i>	N	common
	Oakes' pondweed	<i>Potamogeton oakesianus</i>	N	rare
	tiny pondweed	<i>Potamogeton pusillus</i>	N	uncommon
	Robbins' pondweed	<i>Potamogeton robbinsii</i>	N	common
	northern snailseed pondweed	<i>Potamogeton spirillus</i>	N	common
Primrose Family - Primulaceae				
	moneywort	<i>Lysimachia nummularia</i>	I	common
	whorled loosestrife	<i>Lysimachia quadrifolia</i>	N	common
	swamp candles	<i>Lysimachia terrestris</i>	N	common
	garden loosestrife	<i>Lysimachia vulgaris</i>	I	rare
	starflower	<i>Trientalis borealis</i>	N	common
Wintergreen Family - Pyrolaceae				
	spotted wintergreen	<i>Chimaphila maculata</i>	N	common
	pipsissewa	<i>Chimaphila umbellata</i>	N	common
	shinleaf	<i>Pyrola americana</i>	N	common

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Family	Common name	Scientific Name	Origin	Status
Buttercup Family - Ranunculaceae				
	wood anemone	<i>Anemone quinquefolia</i>	N	common
	columbine	<i>Aquilegia canadensis</i>	N	rare
	marsh mallow	<i>Caltha palustris</i>	N	rare
	virgin's bower	<i>Clematis virginiana</i>	N	uncommon
	goldthread	<i>Coptis trifolia</i>	N	rare
	small-flowered crowfoot	<i>Ranunculus abortivus</i>	N	rare
	tall buttercup	<i>Ranunculus acris</i>	I	common
	bulbous buttercup	<i>Ranunculus bulbosus</i>	I	common
	creeping buttercup	<i>Ranunculus repens</i>	I	uncommon
	celery-leaf crowfoot	<i>Ranunculus scleratus</i>	N	rare
	tall meadow rue	<i>Thalictrum pubescens</i>	N	common
Buckthorn Family - Rhamnaceae				
	New Jersey Tea	<i>Ceanothus americanus</i>	N	rare
	European buckthorn	<i>Rhamnus cathartica</i>	I	common
	glossy buckthorn	<i>Rhamnus frangula</i>	I	common
Rose Family - Rosaceae				
	tall shadbush	<i>Amelanchier arborea</i>	N	common
	red chokeberry	<i>Aronia arbutifolia</i>	N	common
	black chokeberry	<i>Aronia melanocarpa</i>	N	common
	marsh cinquefoil	<i>Comarum palustre</i>	N	rare
	English hawthorn	<i>Crataegus monogyna</i>	I	common
	wild strawberry	<i>Fragaria virginiana</i>	N	common
	white avens	<i>Geum canadense</i>	N	common
	crab apple	<i>Malus pumila</i>	I	common
	silvery cinquefoil	<i>Potentilla argentea</i>	I	common
	dwarf cinquefoil	<i>Potentilla canadensis</i>	N	common
	rough cinquefoil	<i>Potentilla norvegica</i>	N	common
	rough-fruited cinquefoil	<i>Potentilla recta</i>	I	rare
	old field cinquefoil	<i>Potentilla simplex</i>	N	common
	pin cherry	<i>Prunus pennsylvanica</i>	N	rare
	black cherry	<i>Prunus serotina</i>	N	common
	choke cherry	<i>Prunus virginiana</i>	N	common
	multiflora rose	<i>Rosa multiflora</i>	I	common
	swamp rose	<i>Rosa palustris</i>	N	common
	wild rose	<i>Rosa virginiana</i>	N	uncommon
	common blackberry	<i>Rubus allegheniensis</i>	N	common
	northern dewberry	<i>Rubus flagellaris</i>	N	common
	swamp dewberry	<i>Rubus hispidus</i>	N	common
	raspberry	<i>Rubus idaeus</i>	N	common
	black raspberry	<i>Rubus occidentalis</i>	N	rare
	Pennsylvania blackberry	<i>Rubus pensylvanicus</i>	N	rare
	dwarf raspberry	<i>Rubus pubescens</i>	N	rare
	european mountain ash	<i>Sorbus aucuparia</i>	I	common
	meadowsweet	<i>Spiraea alba</i>	N	common
	steeplebush	<i>Spiraea tomentosa</i>	N	common

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Madder Family - Rubiaceae				
	buttonbush	<i>Cephalanthus occidentalis</i>	N	common
	cleavers	<i>Galium aparine</i>	N	uncommon
	wild licorice	<i>Galium lanceolatum</i>	N	rare
	white bedstraw	<i>Galium mollugo</i>	I	uncommon
	sweet white woodruff	<i>Galium odoratum</i>	I	rare
	marsh bedstraw	<i>Galium palustre</i>	N	uncommon
	stiff marsh bedstraw	<i>Galium tinctorium</i>	N	rare
	northern three-lobed bedstraw	<i>Galium trifidum</i>	N	uncommon
	bluets	<i>Houstonia caerulea</i>	N	common
	partridge berry	<i>Mitchella repens</i>	N	common
Rue Family - Rutaceae				
	japanese cork tree	<i>Phellodendron japonicum</i>	I	rare
Willow Family - Salicaceae				
	white poplar	<i>Populus alba</i>	I	uncommon
	cottonwood	<i>Populus deltoides</i>	N	common
	big-toothed aspen	<i>Populus grandidentata</i>	N	common
	trembling aspen	<i>Populus tremuloides</i>	N	common
	weeping willow	<i>Salix alba</i>	I	uncommon
	pussy willow	<i>Salix discolor</i>	N	common
	heart-leaved willow	<i>Salix eriocephala</i>	N	rare
	crack willow	<i>Salix fragilis</i>	I	rare
	shining willow	<i>Salix lucida</i>	N	rare
	black willow	<i>Salix nigra</i>	N	rare
	bog willow	<i>Salix pedicellaris</i>	N	rare
Sandalwood Family - Santalaceae				
	bastard toadflax	<i>Comandra umbellata</i>	N	common
Figwort Family - Scrophulariaceae				
	slender gerardia	<i>Agalinus tenuifolia</i>	N	rare
	downy false foxglove	<i>Aureolaria virginica</i>	N	rare
	turtlehead	<i>Chelone glabra</i>	N	common
	foxglove	<i>Digitalis purpurea</i>	I	rare
	blue toadflax	<i>Nuttallanthus canadensis</i>	N	common
	butter and eggs	<i>Linaria vulgaris</i>	I	common
	cow wheat	<i>Melampyrum lineare</i>	N	common
	mullein	<i>Verbascum thapsus</i>	I	common
	corn speedwell	<i>Veronica arvensis</i>	I	common
	purslane speedwell	<i>Veronica peregrina</i>	N	rare
	marsh speedwell	<i>Veronica scutellata</i>	N	rare
	thyme-leaved speedwell	<i>Veronica serpyllifolia</i>	I	common
Quassia Family - Simaroubaceae				
	tree of heaven	<i>Ailanthus altissima</i>	I	common
Smilax Family - Smilacaceae				
	carrion flower	<i>Smilax herbacea</i>	N	common
	catbriar	<i>Smilax rotundifolia</i>	N	common

PLANTS OF NEEDHAM, MASSACHUSETTS 2000-2002

Family	Common name	Scientific Name	Origin	Status
Tomato Family - Solanaceae				
	bittersweet nightshade	<i>Solanum dulcamara</i>	I	common
	black nightshade	<i>Solanum nigrum</i>	I	uncommon
Bur-reed Family - Sparganiaceae				
	common bur-reed	<i>Sparganium americanum</i>	N	common
	shining bur-reed	<i>Sparganium angrocladum</i>	N	common
Linden Family - Tiliaceae				
	basswood	<i>Tilia americana</i>	N	uncommon
	linden	<i>Tilia cordata</i>	I	rare
Cattail Family - Typhaceae				
	narrow-leaved cattail	<i>Typha angustifolia</i>	N	common
	broad-leaved cattail	<i>Typha latifolia</i>	N	common
Elm Family - Ulmaceae				
	american elm	<i>Ulmus americana</i>	N	rare
	wych elm	<i>Ulmus glabra</i>	I	common
Nettle Family - Urticaceae				
	false nettle	<i>Boehmeria cylindrica</i>	N	common
	stinging nettle	<i>Urtica dioica</i>	N	common
Vervain Family - Verbenaceae				
	blue vervain	<i>Verbena hastata</i>	N	rare
	white vervain	<i>Verbena urticifolia</i>	N	common
Violet Family - Violaceae				
	blue marsh violet	<i>Viola cucullata</i>	N	rare
	lance-leaved violet	<i>Viola lanceolata</i>	N	uncommon
	English violet	<i>Viola odorata</i>	I	common
	birds-foot violet	<i>Viola pedata</i>	N	rare
	arrow-head violet	<i>Viola sagittata</i>	N	common
Grape Family - Vitaceae				
	virginia creeper	<i>Parthenocissus quinquefolia</i>	N	common
	boston ivy	<i>Parthenocissus tricuspidata</i>	I	rare
	summer grape	<i>Vitus aestivalis</i>	N	common
	fox grape	<i>Vitus labrusca</i>	N	common

